OU_220698 CUNIVERSAL

UNIVERSAL LIBRARY

TEXT DARK WITHIN THE BOOK ONLY

TIGHT BINDING BOOK

Agents for the sale of books published by the Superintendent of Government Printing, India, Calcutta.

AGENTS IN EUROPE.

Mr. E. A. Arnold, 41 and 43, Maddox Street, Bond Street, Mr. T. Fisher Unwin, 1, Adelphi, Terrace, London, W.C. London, W.

Mesers. Constable & Co., 10, Orange Street, Leicester Square,

Mouses, P. S. King, & Son, 2 and 4, Great Smith Street, Westmineter.

Mesars. H. S. King & Co., 65, Cornhill, and 9, Pall Mall, London.

Messrs. Grindlay & Co., 54, Parliament Street, London, S.W.

Messrs. W. Thacker & Co., 2, Creed Lane, London, E.C.

Mr. Erner: Leroux, 28, Rue Bonaparte, Paris.

Mr. Martinus Nijhoff, The Hague, Holland.

Mr. B. H. Blackwell, 50 and 51, Broad Street, Oxford.

Messrs. Deighton Bell & Co., Cambridge.

AGENTS IN INDIA.

Mesars. Thacker, Spink & Co., Calcutta and Simla.

Messrs. Newman & Co., Calcutta.

Mesers. R. Cambray & Co., Calcutta.

Messrs, S. K. Lahiri & Co., Calcutta.

Measrs. B. Baneriee & Co., Calcutta.

Messrs. Higginbotham & Co., Madras.

Mesars. V. Kalyanarama Iyer & Co., Madros.

Messrs, G. A. Natesan & Co., Madras.

Messrs. S. Murthy & Co., Madras

Mesers. Thompson & Co., Madras.

Mesers. Temple & Co., Madras.

Messrs, Combridge & Co., Madras.

Measts, P. R. Rama Iyer & Co , Madras

Mesers. A. R. Pillai & Co., Trivandrum.

Messis. Thacker & Co., Ld., Bombay.

Messrs. A. J. Combridge & Co., Bombay.

Messre. D. B. Taraporevala, Sons & Co., Bombay. Mrs. Radhabai Atmaram Sagoon, Bombay.

Mr. Sunder Pandurang, Bombay.

Messrs. Gopal Narayan & Co., Bombay.

Superintendent, American Baptist Mission Press, Rangoon.

Rai Sahib M. Gulab Singh & Sons, Mufid-i-Am Press, Lahore and Allahabad.

Mr. N. B. Mathur, Superintendent, Nazair Kanun Hind Press, Allahahad.

Mesars, A. Chand and Co., Puniab.

Messrs. A. M. & J. Ferguson, Ceylon.

Babu S. C. Talukdar, Proprietor. Students and Company, Cooch

Manager, Educational Book Depôts, Nagpur and Jubbulpore.*

Manager of the Imperial Book Depôt, 63, Chandney Chauk Street, Delhi.*

Manager, East Coast News, Vizagapatam.*

Manager, "The Agra Medical Hall and Co-operative Association.

Limited " (Successors to A. John & Co.), Agra.*

Mr. T. K. Seetharama Aiyar, Kumbakonam. Superintendent, Basel Mission Book and Tract Depository, Mangalore.*

Messrs, P. Varadachary & Co., Madras.

Mr. H. Liddell, Printer, etc., 7, South Road, Allahabad,*

Messrs. D. C. Anand & Sone, Peshawar.*

220

* Agents for sale of the Legislative Department publications.

Books and Technical Papers published by the Railway Board.

- (1) Administration Report on the Railways in India. Published Yearly. Price Volume I, Report, Rs. 1-8-0 or 2s. 8d. Volume II, Appendices, Rs. 2-1-0 or 3s. 6d.
- (2) Classified List and Distribution Return of Officers of all Indian Railways. Published half-yearly. Price Re. 1 or 1s. 6d.
- (3) History of Services of the officers of the Engineer and Superior Revenue Establishment of State Railways. Published yearly. Price Rs. 2-8-0 or 3s. 9d.

Technical papers.

- (4) About 200 papers have been published by the Technical Section of the Railway Board's Office. The papers comprise :-
 - (a) Original descriptions of Railway Works in India and elsewhere.
 - (b) Reprints of articles from foreign Engineering Magazines.
 - (c) Reprints or abstracts of reports received by the Government of India on subjects connected with Railways.

A complete list of the papers can be obtained gratis from the Chief Engineer with the Railway Board. Simle

The books and papers can be bought from the-

Superintendent, Government Printing, 8, Hastings Street; Calcutta.

The prices of the papers vary from Annas Four to Rusees Eight.

Preface.

For many years past a brief History of railways constructed and in progress has been included in the Administration Report on the Railways in India, but as a great deal of the information contained in it consists of standing matter relating to details of construction, contracts, etc., which is of little or no use to many of those to whom the report is supplied, and as it also appears unnecessary and inappropriate to include such information in an annual report, it has been decided by the Railway Board to omit it from future issues of the Report and to print it as a separate publication quinquennially. The present edition has been corrected up to 31st March 1918 and space has been allowed in the statements of statistics of working to admit of these being kept up to date.

For facility of reference and convenience railways in this volume have been grouped by systems.

For the purpose of recording statistics of working, the year in which any radical change was made in the physical or financial constitution of a railway, such as, in the case of companies' lines, the date of purchase by Government, or of important modifications in the contracts with the Secretary of State, has been taken as the starting point.

In the case of lines which are of secondary importance, e.g., 2' 6" and 2' gauge lines, Native State lines and some of the smaller metre gauge railways, statistics for the last 10 years only have been included.

Where railways have been absorbed into larger systems, the statistics of working prior to amalgamation have been omitted, as they no longer serve any useful purpose, and those for the joint concern included in the table of the joint concern from the date of absorption.



Index.

	Railway.			Gauge.	Working or constructing agency.	Page.
	1	-		2	• 3	4
					The second secon	-
	A					
Agra-Delhi Chord Ahmadpur-Katwa				5′ 6 ″ 2′ 6 ″	G. I. P. Ry. Co Ahmadpur-Katwa Ry. Co	68 205
Ahmedabad-Dholka		•••		3′ 3¾″ 3′ 3¾″	1)	24
Ahmedabad-Parantij	•••	•••	•••	3′ 38″	B. B. & C. I. Ry. Co {	25
Alnavar-Dandeli		*	•••	3' 3\frac{3}{5}" 2' 6"	M. & S. M. Ry. Co. Ambaji-Taranga Light Ry. Co	97 206
Ambaji-Taranga Light Amritsar-Patti		•••		5′ 6″	N. W. Ry	110
Arakan Light		•••	[2' 6"	Arakan Light Ry. Co	207
Arrah-Sasaram Light		•••		2' 6"	Arrah-Sasaram Light Ry. Co	208
Assam-Bengal		•••	•••	3′ 33″	Assam-Bengal Ry. Co	153
1				OL 28	Y 15 1	030
Bangalore-Chik Ballar	ur Light	•••	•••	2' 6" 2' 6"	Mysore Durbar Bankura-Damoodar River Ry. Co.	210
Bankura-Damoodar R Baran-Kotah	1ver	•••		5′ 6″	G. I. P. Ry. Co	70
Baraset-Basirhat Ligh		•••		2' 6"	Baraset-Basirhat Light Ry. Co	212
Barsi Light		•••	•••	2' 6"	Barsi Light Ry. Co	214
Bengal and North-We	stern	;	•••	3' 38" 3' 38" 3' 38" 5' 6"	B. & N. W. Ry. Co	157 165
Bengal Dooars Bengal Dooars Extens	one	•••		3/ 33/	Bengal Dooars Ry. Co {	167
Bengal-Nagpur		•••		5' 6"	B. N. Ry. Co	i
Bengal Provincial		•••		2' 6'	Bengal Provincial Ry. Co	216
Bezwada Extension		•••		5' 6"	N. G. S. Ry. Co	100
Bezwada-Masulipatam		•••	•••	3' 3\frac{3}{3}'' 3' 3\frac{3}{3}'' 5' 6''	M. & S. M. Ry. Co Bhavnagar Durbar	87 169
Bhavnagar State Bhopal-Itarsi		•••		5' 6"	Bhavhagar Durbar	70
Bhopal-Ujjain				5' 6"	G. I. P. Ry. Co	72
Bilimora-Kalamba		•••		2′ 6″	B. B. & C. I. Ry. Co	33
Bina-Goona-Baran		•••	•••	5′ 6″ 3′ 3§″	G. I. P. Ry. Co	74 88
Birur-Shimoga Bodeli-Chhota Udaipu		•••	•••	2' 6"	M, & S, M. Ry. Co	34
Bombay, Baroda and	Central India,	5' 6" gauge 3' 3# gauge	section section	5' 6"	B. B. & C. I. Ry. Co	12 22
Bombay Port Trust		o og Brake		3′ 33″ 5′ 6″	Bombay Port Trust	10
Broach-Jambusar		•••	•••	2' 6"	B. B. & C. I. Ry. Co	35
Bukhtiarpur-Bihar Li		•••		2′ 6″ 2′ 6″	Bukhtiarpur-Bihar Light Ry. Co.	218 220
Burdwan Katwa		•••	•••	3' 33"	Burdwan-Katwa Ry. Co	171
Burma Burma Extensions		•••		3' 33" 3' 33"	Burma Rys. Co }	174
*				Ü	,	
	D -iooue'			5′ 6″	Calcutta Port Commissioners	41
Calcutta Port Commis Camppore-Banda	sioners	•••	···	5' 6"	G. I. P. Ry. Co	76
Cawnpore-Burhwal lin	ik	•••		3′ 38″ 2′ 6″	B. & N. W. Ry. Co	135
Champaner-Shivrajpu:	r-Pani Light	•••		2' 6"	Guzerat Rys. Co	222
Chaparmukh Silghat	•••	•••	•••	3' 3'' 3' 3*"	A. B. Ry. Co Mysore Durbar	156 177
Chickjajur-Chitaldrug Cooch Behar State			•••	3' 3\\\" 3' 3\\\\" 2' 6"	E. B. Ry.	49
Cutch State		•••		2' 6"	Cutch Durbar	223
,	D					
Darjeeling-Himalayan	-	•••		2' 0"	De tolker Hill Brown	239
Darjeeling-Himalayan	Extensions			2' 0"	Darjeeling Himalayan Ry, Co.	240
Dasghara-Jamalpurgu	nj	•••	··· į	2' 6"	Bengal Provincial Ry. Co	217
Dehri-Rohtas Light		•		2′ 6″ 5′ 6″	Dehri-Rohtas Light Ry. Co	224
Delhi-Umballa-Kalka Dholony Bari	•••	***	:::	2' 6"	E. I. Ry. Co Dholpur Durbar	225
Dholpur-Bari Dhond-Baramati		•••	:::	2′ 6″	G. I. P. Ry. Co	77
Dhone-Kurnool		•••		3' 34"	M. & S. M. Ry. Co	89
Dhrangadra Dibru-Sadiya	•	•••	:::	3′ 3¼° 3′ 3¼°	Bhavnagar Durbar Assam Rys. & Tradg. Co	170

Index-contd.

E Eastern Bengal, 5' 6' gauge section 3' 32' gauge section 2' 6' gauge section East Indian Ellichpur-Yeotmal F Futwah-Islampur G Gaekwar's Dabhoi Gaekwar's Mebaana Godhar-Lunavada Godhar-Lunavada Godhar-Drobandar State Gondia-Chanda Extension Great Indian Peninsula Gwalior Light H Hardwar-Dehra Hindupur (Yeavantpur-Mysore Frontier) Hingoli Branch Howrah-Amat Light Hydorabad Godavari Valley J Jacohabad-Kashmor Jagadhri Light Jaipur State Jaipur State Jaipur State Jaipur State Jaipur State Jaipur State Jaipur State Jaipur State Jaipur State Jaipur State Kaklahal-Haliabazar Khalia-Baipur State K Kalighat-Falta Kakla-Simla Katakhal-Liaibazar Khalina-Bagirhaut Khulina-Bagirhaut Khulina-Bagirhaut Khulina-Bagirhaut Khulina-Bagirhaut Khulina-Bagirhaut Khulina-Bagirhaut Khulina-Bagirhaut Kilina-Bagirhaut Kilina-Bagirhaut Kilina-Bagirhaut Kilina-Bagirhaut Kalighat-Falta		Working	De
E Eastern Bengal, 5' 6' gauge section 3' 3' 3' gauge section 2' 6' gauge section 2' 6' gauge section East Indian Ellichpur-Yeotmal F Futwah-Islampur G Gaekwar's Dabhoi Gaekwar's Mebsana Godhar-Lunavada Gondal-Porbandar State Gondal-Porbandar State Gondal-Porbandar State Gondia-Chanda Extension Great Indian Peninsula Gwalior Light H Hardwar-Dehra Hindupur (Yeavantpur-Mysore Frontier) Hingoli Branch Howrah-Amta Light Howrah-Sheakhala Light Hyderabad-Godavari Valley J Jacobabad-Kashmor Jagadhri Light Jaipur State Jaipur State Jammu and Kashmir (Native State section) Jammagar Jessore-Jhonidah Jessore-Jhonidah Jessore-Jhonidah Jessore-Jhonidah Jessore-Jhonidah Jodhpur-Bikaner, Jodhpur section Bikaner section Jodhpur-Bikaner, Jodhpur section Jodhpur-Bikaner, Jodhpur section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Jubbulpore-Gondia Extension Julbulpore-Gondia Extension Julnandar-Mukerian Junagad State K Kalighat-Falta Kalka-Simla Katakhal-Lalabazar Khanpur-Chachrau Khulna-Bagirhaut Khulna-Bagirhaut	uge.	Working or constructing agency.	Page.
Eastern Bengal, 5' 6' gauge section 3' 3' gauge section 2' 6' gauge section East Indian Ellichpur-Yeotmal F Futwah-Islampur G G Gaekwar's Dabhoi Godha-Lunavada Gondia-Chanda Extension Great Indian Peniusula Gwalior Light H Hardwar-Dehra Hindupur (Yeavantpur-Mysore Frontier) Hingoli Branch Howrah-Sheakhala Light Hyderabad Godavari Valley J Jacobabad-Kashmar Jagnathri Light Jammagar Jessore-Jhenidah Jammagar Jessore-Jhenidah Jammagar Jessore-Jhenidah Jammagar Jessore-Jhenidah Jodhpur-Bikaner, Jodhpur section Jodhpur-Bikaner, Jodhpur section Jodhpur-Bikaner Jodhpur section Jodhpur-Hyderabad (British section) Jodhpur-Bikaner odd (British section) Johnyar-Gondia Extension Juhlulpore-Gondia Extension Juhlulpore-Gondia Extension Jullundar-Mukerian Junagad State K Kalighat-Falta Kalka-Simla Kalka-Simla Kalka-Simla Khalpaur-Chechrau Khipadiya-Dhari Khilan-Bagirhaut Khilan-Bagirhaut Khilan-Bagirhaut Khulan-Bagirhaut		Control of the Contro	
Eastern Bengal, 5' 6' gauge section 3' 3' gauge section 2' 6'' gauge section East Indian Ellichpur-Yeotmal F Futwah-Islampur G Gaekwar's Dabhoi Gaekwar's Mebsana Godha-Lunavada Gondal-Porbandar State Gondal-Porbandar State Gondal-Porbandar State Gondal-Chanda Extension Great Indian Pentusula Gwalior Light H Hardwar-Dehra Hindupur (Yesvantpur-Mysore Frontier) Hingoli Branch Howrah-Amta Light Howrah-Sheakhala Light Hydorabad-Godavari Valley J Jacobabad-Kashmor Jagadhri Light Jaipur State Jammu and Kashmir (Native State section) Jodhpur-Bikaner, Jodhpur section Bikaner section Jodhpur-Bikaner, Jodhpur section Jodhpur-Hyderabad (British section) Jodhat (Provincial) Junagad State K Kalighat-Falta Kalka-Simla Khalpan-Chochrau Khalpur-Chochrau Khalpan-Chochrau Khalpan-Chochrau Khalpan-Chochrau Khalpan-Chochrau Khalpan-Chochrau Khalpan-Chochrau Khalpan-Chochrau Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khalpan-Chochrau Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut		8	4
Eastern Bengal, 5' 6' gauge section 3' 3' gauge section 2' 6' gauge section East Indian F Futwah-Islampur G Jackwar's Dabhoi Gackwar's Mebsana Jodhra-Lunavada Jondal-Porbandar State Jondal-Porbandar State Jondal-Porbandar State Jondal-Chanda Extension Great Indian Peniusula Gwalior Light H Hardwar-Dehra Hindupur (Yesvantpur-Mysore Frontier) Hingoli Branch Howrah-Amta Light Howrah-Sheakhala Light Hyderabad Godavari Valley J Jacobabad-Kashmor Jagadhri Light Jaipur State Janmu and Kashmir (Native State section) Jodhpur-Bikner, Jodhpur section Bikaner section Bikaner section Jodhpur-Bikner, Jodhpur section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Junagad State K Kalighat-Falta Kalka-Simla Kalka-Simla Kalka-Simla Kalka-Laiabazar Khalppur-Chochrau Khalpar-Chochrau Khalpar-Cho			
Gaekwar's Dabhoi			
Gaekwar's Dabhoi	5′ 6 ″ 3′ 3 ∰″ 2′ 6 ″	E. B. Ry	4.
Futwah-Islampur G Jaekwar's Dabhoi Gaekwar's Mebsana Joddra-Lunavada Jondal-Porbandar State Jondia-Chanda Extension Great Indian Peniusula Gwalior Light H Hardwar-Dehra Hindupur (Yesvantpur-Mysore Frontier) Hingoli Branch Howrah-Anta Light Howrah-Sheakhala Light Hyderabad Godavari Valley J Jacobabad-Kashmor Jagadhri Light Jaipur State Jamma and Kashmir (Native State section) Jamma gar Jessore-Jheniada Jessore-Jheniada Jestalsar-Rajkot Jind-Panipat (Native State section) Jodhpur-Bikner, Jodhpur section Bikaner section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Junagad State K Kalighat-Falta Kaslka-Simla Kaslka-Simla Kaslka-Simla Kaslka-Lalabazar Khappur-Chochrau Khalpar-Chochrau Khappur-Chochrau Khalpar-Chochrau Khalpar-Bagirchaut Khalla-Bagirchaut Khalla-Bagirchaut Khalla-Bagirchaut Khalpar-Bagirchaut Khalpar-Bagirchaut Khalpar-Bagirchaut Khalla-Bagirchaut Khalpar-Bagirchaut Khalpar-Bagirchaut Kaslka-Bagirchaut Khalpar-Bagirchaut Khalpar-Bagirchaut Kaslka-Bagirchaut Kaslka-Bagirchaut Khalpar-Bagirchaut	6' 6') n r n- d-	. 5
G Gaekwar's Dabhoi	6*	E. I. Ry. Co	53 71
G G Gaekwar's Dabhoi Raekwar's Mebaana Sodhra-Lunavada Sodhra-Lunavada Sondal-Porbandar State Sondial-Porbandar State Sondial-Porbandar State Sondial-Porbandar State Sondial-Porbandar State Sondial-Porbandar State Sondial-Porbandar State Gondial-Porbandar State Sondial-Porbandar H Hardwar-Dehra Hindupur (Yeavantpur-Mysore Frontier) Hingoli Branch Howrah-Anta Light Howrah-Anta Light Howrah-Sheakhala Light Hyderabad Godavari Valley J J Jacobabad-Kashmor Iagadhri Light Iagannagar Jamanagar Jessore-Jhenidah Jestalsar-Rajkot Iind-Panipat (Native State section) Bikaner section Bikaner section Bikaner section Johhulpor-Bikaner Sorbandar Sorbandar Sorbandar K Kalighat-Falta Kalkal-Ialabazar Khappur-Chachran Kh		G. I. I. Isy. 00	•
G Haekwar's Dabhoi Haekwar's Mebsana Jodhra-Lunavada Sondal-Porbandar State Jondis-Chanda Extension Prest Indian Peninsula Swalior Light H Hardwar-Dehra Hindupur (Yesvantpur-Mysore Frontier) Hingoli Branch Howrah-Mata Light Howrah-Sheakhala Light J J Jacobabad-Kashnor Jagadhri Light Jaipur State Jamnagar Jessore-Jhenidah Jessore-Jhenidah Jestalsar-Rajkot Jind-Panipat (Native State section) Jodhpur-Bikaner, Jodhpur section Bikaner section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Junagad State K Kalighat-Falta Kalighat-Falta Kalighat-Falta Kalighat-Chadrau Khappur-Chadrau			
Gaekwar's Dabhoi Gaekwar's Mebsana Godha-Lunavada Godha-Lunavada Gondal-Porbandar State Gondia-Chanda Extension Great Indian Peninsula Gwalior Light H Hardwar-Dehra Hindupur (Yesvantpur-Mysore Frontier) Hingoli Branch Howrah-Mant Light Howrah-Sheakhala Light Hyderabad-Godavari Valley J Jacobabad-Kashmor Jagadhri Light Jaipur State Jammagar Jessore-Jhenidah Jessore-Jhenidah Jestalsar-Rajkot Jind-Panipat (Native State section) Jodhpur-Bikaner, Jodhpur section Bikaner section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Jubbulpore-Gondia Extension Jullundar-Mukerian Junagad State K Kalighat-Falta Kalka-Simla Kalka-Simla Khappur-Chochrau Khappur-Chochrau Khappur-Chochrau Khappur-Chochrau Khappur-Chochrau Khappur-Chochrau Khappur-Chochrau Khuppur-Chochrau Khupnur-Chochrau Khupnur-Chochrau Khupnur-Chochrau Khupnur-Chochrau Khupnur-Chochrau Khupnur-Chochrau Khupnur-Chochrau Khupla-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut	2′ 6*	Futwah-Islampur Ry. Co	22
Gaekwar's Dabhoi Gaekwar's Mebsana Godha-Lunavada Godha-Lunavada Gondal-Porbandar State Gondia-Chanda Extension Great Indian Peninsula Gwalior Light H Hardwar-Dehra Hindupur (Yesvantpur-Mysore Frontier) Hingoli Branch Howrah-Mant Light Howrah-Sheakhala Light Hyderabad-Godavari Valley J Jacobabad-Kashmor Jagadhri Light Jaipur State Jammagar Jessore-Jhenidah Jessore-Jhenidah Jestalsar-Rajkot Jind-Panipat (Native State section) Jodhpur-Bikaner, Jodhpur section Bikaner section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Jubbulpore-Gondia Extension Jullundar-Mukerian Junagad State K Kalighat-Falta Kalka-Simla Kalka-Simla Khappur-Chochrau Khappur-Chochrau Khappur-Chochrau Khappur-Chochrau Khappur-Chochrau Khappur-Chochrau Khappur-Chochrau Khuppur-Chochrau Khupnur-Chochrau Khupnur-Chochrau Khupnur-Chochrau Khupnur-Chochrau Khupnur-Chochrau Khupnur-Chochrau Khupnur-Chochrau Khupla-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut			
Abekwar's Mebsans Jodn'ra-Lunavada Jondal-Porbandar State Jondia-Chanda Extension Great Indian Peniusula Gwalior Light H Hardwar-Dehra Hindupur (Yesvantpur-Mysore Frontier) Hingoli Branch Howrah-Amta Light Howrah-Sheakhala Light Hyderabad Godavari Valley J Jacobabad-Kashmor Jagadhri Light Jaipur State Jammu and Kashmir (Native State section) Jamma and Kashmir (Native State section) Jammagar Jessore-Jhenidah Jestalsar-Rajkot Jind-Panipat (Native State section) Jodhpur-Bikaner, Jodhpur section Bikaner section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Jubhulpore-Gondia Extension Jullundar-Mukerian Junagad State K Kalighat-Falta Kalka-Simla Kalka-Simla Kalka-Simla Kalka-Laiabazar Khappur-Chochran Khalpar-Chochran Khalpar-Chochran Khalpar-Chochran Khalpar-Chochran Khalpar-Chochran Khulna-Bagirshaut Khulna-Bagirsha	2' 6"	DP LOID O	3
Gondia-Porbandar State Gondia-Chanda Extension Great Indian Peniusula Gwalior Light H Hardwar-Dehra Hindupur (Yeavantpur-Mysore Frontier) Hingoli Branch Howrah-Amta Light Howrah-Sheakhala Light Hyderabad-Godavari Valley J Jacohabad-Kashmor Jagadhri Light Jaipur State Jaipur State Jammu and Kashmir (Native State section) Jammagar Jessore-Jhenidah Jestalsar-Rajkot Jind-Panipat (Native State section) Jodhpur-Bikaner, Jodhpur section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Jubhulpore-Gondia Extension Jullundur-Mukerian Junagad State K Kalighat-Falta Kalka-Simh Kalka-Simh Kalka-Simh Kalka-Simh Kalka-Simh Kalka-Simh Kalka-Jhaibazar Khanpur-Chochrau Khulna-Bagirhaut	3′ 3§″ 2′ 6″	B. B. & C. I. Ry. Co {	2
H Hardwar-Dehra Hindupur (Yeavantpur-Mysore Frontier) Hingoli Branch Howrah-Amta Light Howrah-Sheakhala Light Hyderabad-Godavari Valley J Jacobabad-Kashmor Jagadhri Light Jaipur State Jannu and Kashmir (Native State section) Jamnagar Jessore-Jhenidah Jetalsar-Rajkot Jind-Panipat (Native State section) Jodhpur-Bikuner, Jodhpur section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Jorhat (Provincial) Jubulpore-Gondia Extension Jullundar-Mukerian Junagad State K Kalighat-Falta Kalka-Simla Kalka-Simla Khappur-Chohara Khappur-Chohara Khappur-Chohari Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut	6"	Guzerat Rys. Co	22
H Hardwar-Dehra Hindupur (Yeavantpur-Mysore Frontier) Hingoli Branch Howrah-Amta Light Howrah-Sheakhala Light Hyderabad-Godavari Valley J Jacobabad-Kashmor Jagadhri Light Jaipur State Jannu and Kashmir (Native State section) Jamnagar Jessore-Jhenidah Jetalsar-Rajkot Jind-Panipat (Native State section) Jodhpur-Bikuner, Jodhpur section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Jorhat (Provincial) Jubulpore-Gondia Extension Jullundar-Mukerian Junagad State K Kalighat-Falta Kalka-Simla Kalka-Simla Khappur-Chohara Khappur-Chohara Khappur-Chohari Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut	3' 3\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Gondal and Porbandar Durbars	18
Hardwar-Dehra Hindupur (Yesvantpur-Mysore Frontier) Hingoli Branch Howrah-Amta Light Howrah-Sheakhala Light Hyderabad Godavari Valley J Jacobabad-Kashmor Jagadhri Light Jaipur State Jammu and Kashmir (Native State section) Jammu and Kashmir (Native State section) Jammu and Kashmir (Native State section) Jodhpur-Bikaner, Jodhpur section Jodhpur-Bikaner, Jodhpur section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Jubulpore-Gondia Extension Jullundur-Mukerian Junagad State K Kalighat-Falta Kalka-Simha Kalka-Simha Khabupur-Chochrau Khapupr-Chochrau Khapupr-Chochrau Khapupr-Chochrau Khapupr-Chochrau Khapupr-Chochrau Khapupr-Chochrau Khapupr-Chochrau Khijadiya-Dhari Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut	5' 6"	B. N. Ry. Co	6
Hardwar-Dehra Hindupur (Yesvantpur-Mysore Frontier) Hingoli Branch Howrah-Amta Light Howrah-Sheakhala Light Hyderahad Godavari Valley J Jacobabad-Kashmor Jagadhri Light Jaipur State Jammagar Jessore-Jhenidah Jessore-Jhenidah Jestalsar-Rajkot Jind-Panipat (Native State section) Jodhpur-Bikaner, Jodhpur section Bikaner section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Jubhulpore-Gondia Extension Jullundar-Makerian Junagad State K Kalighat-Falta Kalka-Simla Kalka-Simla Khappur-Chochrau Khuppur-Chochrau Khuppur-Chochrau Khuppur-Chochrau Khuppur-Chochrau Khuppur-Chochrau Khuplan-Bagirhaut	2' 0"	Gwalior Durbar	24
Hardwar-Dehra Hindupur (Yeavantpur-Mysore Frontier) Hingoli Branch Howrah-Amta Light Howrah-Mnat Light Hyderabad-Godavari Valley J Jacobabad-Kashmor Jagadhri Light Jaipur State Jammagar Jessore-Jhenidah Jessore-Jhenidah Jessore-Jhenidah Jotalsar-Rajkot Jind-Fanipat (Native State section) Jodhpur-Bikaner, Jodhpur section Bikaner section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Jubhulpore-Gondia Extension Jullundar-Mukerian Junagad State K Kalighat-Falta Kalka-Simla Kalka-Simla Khappur-Choherau Khappur-Choherau Khappur-Choherau Khinjadiya-Dhari Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut			
Hindupur (Yesvantpur-Mysore Frontier) Hingoli Branch Howrah-Mrat Light Hydorabad Godavari Valley J Jacobabad-Kashmor Jagadhri Light Jaipur Stato Jammagar Jessore-Jhenidah Jestalsar-Rajkot Jind-Panipat (Native State section) Jodhpur-Bikaner, Jodhpur section Bikaner section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Junagad State K Kalighat-Falta Kalka-Simla Kalka-Jinlabazar Khappur-Chochran Khappur-Chochran Khappur-Chochran Khappur-Chochran Khappur-Chochran Khappur-Chochran Khappur-Chochran Khappur-Chochran Khappur-Chochran Khipadiya-Dhari Khulna-Bagirhaut Kulna-Bagirhaut Kulna-Bagirhaut Khuplus-Chochran Khipadiya-Dhari Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khupla-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut			
Hingoli Branch Rowrah-Amta Light Howrah-Sheakhala Light Hyderabad-Godavari Valley J Jacobabad-Kashmor Jagodhri Light Jaipur State Jammagar Jessore-Jhenidah Jetalsar-Rajkot Jind-Panipat (Native State section) Jodhpur-Bikuner, Jodhpur section Bikaner section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Jubhulpore-Gondia Extension Jullundar-Mukerian Junnagad State K Kalighat-Falta Kalka-Simla Kalka-Jinlabazar Khappur-Chochrau Khipadiya-Dhari Khulna-Bagirhaut	5' 6"	O. & R. Ry	13
Howrah-Sheakhala Light Hyderabad-Godavari Valley J Jacobabad-Kashmor Jagadhri Light Jaipur State Janmagar Jessore-Jhenidah Jessore-Jhenidah Jetalsar-Rajkot Jind-Fanipat (Native State section) Jodhpur-Bikaner, Jodhpur section Bikaner section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Jubhulpore-Gondia Extension Jullundar-Mukerian Junagad State K Kalighat-Falta Kalka-Simla Kalka-Simla Khappur-Chochrau Khappur-Chochrau Khijadiya-Dhari Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut	3' 3#" 3' 3#"	M. & S. M. Ry. Co	9 10
Howrah-Sheakhala Light Hyderabad-Godavari Valley J Jacobabad-Kashmor Jagadhri Light Jaipur State Janmagar Jessore-Jhenidah Jessore-Jhenidah Jetalsar-Rajkot Jind-Fanipat (Native State section) Jodhpur-Bikaner, Jodhpur section Bikaner section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Jubhulpore-Gondia Extension Jullundar-Mukerian Junagad State K Kalighat-Falta Kalka-Simla Kalka-Simla Khappur-Chochrau Khappur-Chochrau Khijadiya-Dhari Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut	3' 3g" 2' 0"	Howrah-Amta Light Ry. Co	24
J Jacohabad-Kashmor Jagadhri Light	2′ 0″	Howrah-Sheakhala Light Ry. Co.	24
Jacobabad-Kashmor Jagadhri Light Jaipur State Jammu and Kashmir (Native State section) Jammu and Kashmir (Native State section) Jammagar Jessore-Jhenidah Jessore-Jhenidah Jetalsar-Rajkot Jind-Panipat (Native State section) Jodhpur-Bikaner, Jodhpur section Jodhpur-Bikaner, Jodhpur section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Juhbulpore-Gondia Extension Jullundur-Mukerian Junagad State K Kalighat-Falta Kalka-Simla Kalka-Simla Kalka-Lalabazar Khappur-Chochrau Khijadiya-Dhari Khulna-Ba girhaut Khulna-Ba girhaut Khulna-Ba girhaut Khulna-Ba girhaut	3′ 38″	N. G. S. Ry. Co	10
Jagndhri Light Jaipur State Jaipur State Jammu and Kashmir (Native State section) Jammu and Kashmir (Native State section) Jessore-Jhenidah Jessore-Jhenidah Jetalsar-Rajkot Jind-Panipat (Native State section) Jodhpur-Bikuner, Jodhpur section Jodhpur-Bikuner, Jodhpur section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Juhulpur-Gondia Extension Jullundur-Mukerian Junagad State K Kalighat-Falta Kalka-Simla Kalka-Simla Kalka-Simla Kalka-Inalabazar Khappur-Chachrau Khappur-Chachrau Khijadiya-Dhari Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut		·	
Jagnathri Light Jaipur State Jaipur State Jammu and Kashmir (Native State section) Jamnagar Jessore-Jhenidah Jetalsar-Rajkot Jind-Panipat (Native State section) Jodhpur-Bikaner, Jodhpur section Bikaner section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Jurhat (Provincial) Junagad State K Kalighat-Falta K Kalighat-Falta Kalka-Simba Katakhal-lalabazar Khappur-Chochrau Khipjadiya-Dhari Khijadiya-Dhari Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut	2' 6"	N. W. Ry	12
Jaipur State Jammu and Kashmir (Native State section) Jammu and Kashmir (Native State section) Jessore-Jhenidah Jessore-Jhenidah Jetalsar-Rajkot Jind-Panipat (Native State section) Jodhpur-Bikaner, Jodhpur section Bikaner section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Juhbulpore-Gondia Extension Jullundur-Mukerian Junagad State K Kalighat-Falta Kalka-Simla Kalka-Simla Kalka-Lalabazar Khappur-Chochrau Khijadiya-Dhari Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut Khulna-Bagirhaut	2′ 0″	Jagadhri Light Ry. Co	24
Jamnagar	3' 38"	B. B. & C. I. Ry. Co	2
Jessore-Jhonidalı Jetalsar-Rajkot Jind-Panipat (Native State section) Jodhpur-Bikuner, Jodhpur section Bikaner section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Jubhulpore-Gondia Extension Jullundar-Mukerian Junnagad State K Kalighat-Falta Kalka-Simla Kalka-Simla Khappur-Chachrau Khappur-Chachrau Khipadiya-Dhari Khulna-Ba girhaut	5′ 6″ 3′ 3§″	N. W. Ry]1 18
	2' 6"	Jessore-Jhenidah Ry. Co.	23
Jind-Panipat (Native State section) Jodhpur-Bikaner, Jodhpur section Bikaner section Jodhpur-Hyderabad (British section) Jorhat (Provincial) Jubbulpore-Gondia Extension Jullundur-Mukerian Junagad State K Kalighat-Falta Kalka-Simha Kalka-Simha Kalka-Lalabazar Khappur-Chachrau Khijadiya-Dhari Khulna-Ba girhaut Khulna-Ba girhaut Khulna-Ba girhaut Khulna-Ba girhaut	3' 38"	Gondal and Porbandar Durbars	18
Bikaner section	5′ 6″	E. I. Ry. Co	6
Jodhpur-Hyderabad (British section)	3′ 38″	Jadhaan Bikanan Ba	18
Jubbulpore-Gondia Extension	3′ 3 8″ 3′ 38″	Jodhpur-Bikaner Ry	18 18
Jubbulpere-Gondia Extension Jullandur-Mukerian Junagad State K Kalighat-Falta Kalka-Simla Katakhal-lalabazar Khappur-Chachrau Khijadiya-Dhari Khulha-Bagirhaut Kulha-Bagirhaut	3′ 3§″ 2′ 0″	Assam Administration	24
Julinadir-Mukerian Junagad State	2′ 6″	B. N. Ry. Co	
Kalighat-Falta	5′ 6″	N. W. Ry	11
Kalighat-Falta Kalka-Simla Katakhal-Lalabazar Khappur-Chachrau Khipadiya-Dhari Khulna-Ba girhaut	3′ 38″	Junagad Durbar	19
Kalka-Simla Katakhal-Inlabazar Khappur-Chaobrau Khijadiya-Dhari Khulna-Ba girhaut	01 0"	Kalimbat Walta Dr. Ca	636
Katakhal-Lalabazar Khappur-Chachrau Khijadiya-Dhari Khulna-Bagirhaut	2′ 6″ 2′ 6″	Kalighat-Falta Ry. Co N. W. Ry	28 12
Khijadiya-Dhari Khulna-Bagirhaut		A. B. Ry. Co	15
Khijadiya-Dhari Khulna-Bagirhaut	3′ 3§″ 5′ 6″	N. W. Ry	11
Khulna-Bagirhaut	3' 32"	Gondal and Porbandar Durbars	18
	2' 6"	E. R. Ry N. W. Ry	10
	2′ 6″ 2′ 6″	Marketta Danilara	12
	2 6" 5' 6"	1) .	8
		M. & S. M. Ry. Co {	9
Kosamba-Zankhyay	2′ 6″	B. B. & C. I. Ry. Co	3
Kulasekarapatnam-Tissianvillai Light	2′ 0″	East India Distilleries and Sugar Factories, Ltd., of Madras.	24

Index-contd.

	Railwe	ıy.			Gange.	Working or constructing agen	ıcy.	Page.
						*		
	. 1				2	3		4
Appello annota agree o ante il annotation pre-	L						,	
Larkhana-Jacobabae Ledo and Tikak-Ma		 Iliany			2' 6" 3' 33"	Sind Light Ry, Co Assam Rys. & Tradg. Co.		130 179
Lucknow-Bareilly	•••				3' 3\frac{2}{3'}'' 3' 3\frac{2}{3'}'' 5' 6"	R. & K. Ny. Co	:::	201
Ludhiana-Dhuri-Jal	hal	•••	•••	•••	5′ 6′	N. W. Ry	•••	115
	M							
Madaya Light		•••	:. . ,.		2' 6"	Madaya Tramway Co.		234
Madras and Souther	n Mahratta	a,5 6 g 3′35″ø	auge section		5′ 6″ 3′ 3 § ″	M. & S. M. Ry. Co.	{	81 86
Manamadura-Sivage	nga	•••	•••		3′ 3§″ 5′ 6″	S. I. Ry. Co		151
Mandra-Bhaun Matheran Light	•••	•••	•••		5′ 6″ 2′ 0″	N. W. Ry G. I. P. Ry. Co		116 79
Mayurbbanj Extens	ion		•••		2' 6"	B. N. Ry. Co	:::	11
Mirpur Khas Jhudo	•••		•••		3' 39"	11	()	189
Mirpur Khas-Khadr	0			•••	3'35"	Jodhpur-Bikaner Ry		191
Mohari-Barauli	•••	•••	•••		2' 6". 2' 6"	Dholpur Durbar S. I. Ry. Co.	•••	225 150
Morappur-Hosur Mourbhanj State	•••			•••	2' 6"	B. N. Ry. Co	:::	7
Morvi	•••				$\begin{cases} 3' & 33'' \\ 2' & 6'' \end{cases}$	Morvi Durbar		194
		•••			2' 6"	1		155
Mymensingh-Bhaire Mymensingh-Jamal	d) Bazar	theani		•••	3' 38" 3' 3 8"	A. B. Ry. Co E. B. Ry	•••	50
Mysore-Arsikere			•••		3' 3\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Mysore Durhar	:::	195
Mysore Nanjangud Mysore section (Mahratta).		 d South	ern		3' 3' 3' " 3' 3' "	M. & S. M. Ry. Co.	{	9 2 92
	N							
Nadiad-Kapadvanj					2′ 6″	Guzerat Rys. Co		2 35
Nagda-Ujiain					5′ 6″	B. B. & C. I. Ry. Co.		16
Nagpur-Chhindwar	Extension	•••	•••	•••	2′ 6″ 2′ 6″	B. N. Ry. Co		8
Navsari-Kamrej Lig Nilgiri	ht		•••			Baroda Durbar S. I. Ry. Co	:::	39 141
Nizam's Guaranteed	State		•••		3′ 3§″ 5′ 6″	N. G. S. Ry. Co	•••	98
North Western				•••	5′ 6″	N. W. Ry		106
Nowshera-Durgai		•••	•••	•	2' 6"	<u> </u>	1	129
	0						1	
Okhamandal					3' 33"	Baroda Durbar		195
Oudh and Robilkha	nd	•••	•••	•••	5′ 6*	O. & R. Ry	•••	131
	P						i	
Pachora-Jamuer		•••			2' 6"	G. I. P. Ry. Co		80
Palanpur-Deesa					3' 32"	B. B. & C. I. Ry. Co.		31
Panposh-Raipura	•••	•••	•••		5′ 6″ 2′ 6″	B. N. Ry, Co	{	11
Parlakimedi Light Peralam-Karaikkal	•••	•••	••• •••	:::	91 937	S I. Ry. Co		8 142
Petlad-Cambay, Ana	nd-Tarapu	r section			5′ 6″)		18
Tar	spur-Camba	y section			5′ 6″ 2′ 6″	B. & C. I. Ry. Co.	}	18
Petlad-Vaso	•••	•••	•••		5'\6"	N W. Ry	C	38 111
					2' 0"	Jolhpur Bikaner Ry.		192
Phagwara-Rahon			•••		3' 35"	, .	1	43

Phagwara-Rahon Pipar-Bilara Light Podanur-Pollachi Pondicherry		•	•••	}	3' 38"	S. I. Ry. Co		44
Phagwara-Rahon Pipar-Bilara Light Podanur-Pollachi Pondicherry Powayan Light	•••	•••		:::	3' 3\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	R. & K. Ry. Co	{	202
Phagwara-Rahon Pipar-Bilara Light Podanur-Pollachi Pondicherry	•••	•	•••	}	3' 3\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1 3	··· {	

Index-concld.

	Railwa	y . ´	•		Gauge.	Working or constructing agency.	Page
-	ì			-	2	3	4
The same and the s	R						
Raipur-Dhamtari	Branch	•••		•••	2' 6"	B. N. Ry. Co	
Rajpipla State	•••	•••	•••	•••	2' 6" 5' 6'	B. B. & C. I. Ry. Co. N. W. Ry	38
Rajpura-Bhatinda Rohilkund and Ku	imaon			::	3, 31.	R. & K. Ry. Co	190
	8						
Sangli State	***			•••	3′ 3≹″	M. & S. M. Ry. Co.	9
Sara-Siraigani			•••		3' 3\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	E. B. Ry	48
Secunderabad-Gad	wal	· · ·	•••	•••	3' 3%	N. G. S. Ry. Co	104
Shahdara (Delhi)-	Saharanpur	Light	•••	•••	2' 6"	Shahdara (Delhi)-Saharanpi Light Ry. Co.	ır 230
Shoranur-Cochin			•••	}	3′ 3‡″ 5′ 6″	S. I. Rv. Co.	14
Sialkot-Narowal	•••	•••	•••	•••	5′ 6″ 5′ 6″	N. W. Ry.	111
South Bihar South Indian, 5' 6	" gange sectio	···	•••		5′ 6″ 5′ 6″	E. J. Ry. Co	63
3′ 3	orange secta	ion	•••		3' 3'' 5' 6"	S. I. Ry. Co	{ 13
Southern Punjab,	Main line	•••	•••	•••	5' 6")	[120
•	Juliundur D	oab	•••	•••	5' 6"	EN. W. Ry) 12:
	Ludhiana E Sutlej Valle	xtension	•••	•••	5′ 6″ 5′ 6″)	12
Southern Shan St		,y 	•••	•••	3' 38"	Burma Rys. Co:	170
uramangalam-Sa		•••	•••		5' 6"	S. I. Ry. Čo	13
	T						
l'anjore District E		•••	•••	•••	3′ 3°° 5′ 6″	S. I. Ry. Co.	146
lapti Valley	hornionura	•••	•••	•••	5' 6' 2' 6"	B. B. & C. I. Ry. Co. Mysore Durbar	25
Farikere-Narasiml Fenali-Repalli	anrajapura	•••	•••		5′ 6*	M. & S. M. Rv. Co.	8
l'ezpore. Relinara I	Light		***	•••	2' 6"	Tezpore-Balipara Light Ry. Co	. 238
Cinnevelly-Quilon	(Travancore)), British	section		8' 3"" 9' 9")	(14)
Tinnevelly-Tiruch	andur	TARCIVE	State sec		3′ 3° 3′ 3° 3′ 3° 3′ 3° 3′ 3° 3′ 3° 3′ 3° 3′ 3° 3′ 3° 3′ 3° 3′ 3° 3′ 3′ 3′ 3′ 3′ 3′ 3′ 3′ 3′ 3′ 3′ 3′ 3′	S. I. Ry. Co	} 145
Cirhoot		•••	•••	•••	3' 35" 3' 35" 2' 6"	B. & N. W. Ry. Co.	16
lirupattur-Krishn	ngiri		•••	•••	2' 6"	S. I. Ry. Co	15
Prans Indus (Kali	abagh-Bannu		•••	•••	2' 6"	N. W. Ry	129
richinopoly-Pudu	.kkotta: ht	•••	•••	•••	3′ 3≹″ 2′ 0″	S. I. Ry. Co B. N. Ry. Co	155
lumsar-Tirodi Lig		•••	•••	•••	2 0	D. A. Ry. Co	
	σ				•		,
J dai pur-Chitorgai	h	•••	•••	•••	3′ 3{*″	Mewar Durbar	204
	v						
Vijapur-Kalol-Ka	di		•••	!	3′ 3%*	B. B. & C. I. Ry, Co.	3
	w	į					
				1			
West of India Pci	tuguese	•••	•••		3′ ឧត្ត•	M. & S. M. Ry. Co	9
	-			- 1	- 1	•	1

GENERAL.

From the year 1906-07 Interest on Debt in India has been calculated at the actual average rate for the year of interest on the mean non-specific debt of India, instead of at the fixed rates of 4 and 31 per cent previously employed. The actual rates from 1906-07 to 1917-18 were 3.437, 3.412, 3.384, 3.384, 3.377, 3.401, 3-500, 3-388, 3-499, 3-4725, 3-2964 and 3-4730 per cent, respectively.

One effect of the change is that, in some cases, while the capital outlay on a railway at the end of 1907 was more than that at the end of 1906, the interest charge in connection therewith was less.

BENGAL-NAGPUR RAILWAY, SYSTEM.

Chairman-ROBERT MILLER, Esq. Charman—Nobel Stitling, 1982.

Managing Director—Sin T. R. Winne, K.C.S.I., K.C.I.E.

Offices—132, Gresham House, Old Broad Street, London, E.C.

Date of registration of the Company—23rd February 1887.

Lines comprised in the system.—The Bengal-Nagpur railway system is made up of-

		C	Open line. Miles.	07 88	notioned	l for ion.		otal.
(Den sel Magnes sellmen proper (5/6" mange)	1.54	27:00)	M11103.		Miles.		,	Wiles.
 (a) { Bengal-Nagpur railway proper (5' 6" gauge) { East Coast railway, Northern section (5' 6" gauge (b) Gondia-Chanda Extension, Bengal Nagpur railway)* . 32	1.55	1,888.64		266.20		2,1	54.84
(b) Gondin-Chanda Extension, Bengal-Narpur railway (r) Jubbulport-Gondin Extension, Bengal-Narpur rail (d) Mourbhanj State railway (2' 6' gange) (e) Narpur-Chindwara Extensión, Bongal-Narpur rail (f) Parlakimodi Light railway (2' 6' gange) (g) Parlakimodi branch, Bengal-Narpur railway (2' (h) Raipur-Dhamtari branch, Bengal-Narpur railway (2' (i) Tunasar Tirod Light railway (2' 6' gange) (g) Panpoah-Raipura railway (5' 6' gange) (k) Mayurbhanj Extension railway (2' 6' gange)	way 12'6" ga Way 12'6" ga 7' gango) 7'6" gango)	ugo).	217:25 311:81 .32:41 .97:20 24:62 115:30 56:94 .51:10		9 01 14 30 38 71		1	217 25 320 82 32 41 97 20 24 62 15 30 56 94 51 10 14 30 98 71
	Total .		2,795*27		328-22		3.1	28:49
Running powers- Home line over Foreign lines :-		-						
At Katni, East Indian rational At Mansad and Katrasgarin. East Indian rational At Howrah, East Indian rational, for passonger trains of At Nagpur, Great Indian Pointsile rational Waltair to Vizagapatam, including wharf and awar Mahratta rations 15 6° gauge)	passonger and maly plines, Mar			$\mathbf{r}_{\mathbf{n}}$ $\left\{\mathbf{f}_{0}\right\}$	r passon goods tr	ger an	id {	0.80 1.16 1.00 0.65 4.97
Foreign lines over Home line:— Great Indian Peninsula railway, Nagpur to Itwari Baza	w 1:79 miles		odo terina	- n.A. 1100	Total			8:08
for passenger trains.	1, 1 10 11 1100,	ror go	ous crains	and I o	inner, a	.t nati	11,	
					Total	•		3.33

Bengal-Nagpur railway (5' 6" gauge) -

The Bengal-Nagpur Railway Company was formed in 1887 and took over the Nagpur-Chhattisgarh State railway and constructed other lines, embracing in all a system of railways known as the Bengal-Nacpur railway.

Progress in opening-

Sections of railway.		Date of opening.	Miles.	Total.	Grand total.	Remarks.
1		2	3	4	5	6
BNOAL-NAGPUR PROFER— Main Line— Assasol to Damoedur Damoedur to Purulia Purulia to Chakurdharpore Chakurdharpore to Golikera Golikera to Jurraugada Jharsuguda to Raigarh Raigarh to Bilaspur Bilaspur to Raipur Baipur to Raipur Raipur Raipur Raipur Raipur to Raipur Raipur to Raipur Raipur to Raipur Raipur Raipur Raipur Raipur to Raipur		12-6-89 14-12-89 22-1-90 15-5-90 1-2-91 20-1-90 10-2-90 10-1-89 4-12-88 1840, '81 & '82†	4-62 44-56 72-23 20-90 104-93 44-42 82-40 69-52 42-04 1-44-92	629-53		†These are th
Branches— Sanctoria coal branch— Damoodur to the Sanctoria collicries Uhaurashi branch—		12-6-89	8:11	8·11		dates of openi- in sections of to original 3' 3 range line, whi- was converted
Ramkanali to Nodiha Colliery siding (sidin No. 7)	ng	1-2-03	8.52	8·52		the 5' 6" gauge and reopened of the 27th Novem
Sambalpur branch Jharsuguda to Sambalpur		1-9-98	29.90	29-90		ber 1888.
Carried over	. 1	1	[676.08	

*Transferred for working as an integral part of the Bengal-Nagpur railway from the 1st January 1901.

BENGAL-NAGPUR RAILWAY SYSTEM-contd.

Bengal-Nagpur railway (5' 6" gauge)-contd.

Progress in opening-contd.

			Ι	1	
& Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	Remarks.
1	8	3	4	5	6
	-	-			<u> </u>
Brought forward				676-06	
Katni branch— Bilsapur to Birsinghpur Birsinghpur to Umaria Umaria to Katni Katni to Marwara Junction	1-2-91 11-5-90 2-11-86	142:82 18:46 85:88 0:65			
Kanhan to Dattapahar	. 26-9-07	17:89	197·81 17·39		
Calcutta extension— Sini to Kharppur Sini to Khal Bridge Khal Bridge to Bajapur Khal Bajapur Khal to Howrah Fort Gloster branch 156, Lawrence Mill 088 and Ea Boop Narain Bank 081 and Kidderpore For line 0	1-6-98 17-12-98 24-5-00 14-12-00 at 14-12-00	100·02 36·57 18·80 15·31 3·80	1,35		
Hing mili line at Fuleshwar	16-6-17	0.48	174.93		
Shalimar branch— Bantragachi to Shalimar	. 15-8-01	8.12	3.12		
Outtack extension— Khargpur to Balasore Balasore to Outtack	. 17-12-98 10-1-99	71·86 110·40	182:26		
Jharia estension — Khargpur to Cosaye river Right bank of the Cossye river to Midnapore Midnapore to Bhojudih Bhojudih to Gomoh Sudandih block hut to Bhowrah block hut	20-12-99 8-6-01 1-2-03 1-1-07 17-2-14	6:40 1:55 114:95 26:15 1:78	150.77		
Branches and extensions on the Jharia Coal-fields— Bhojudsh-Bhaga-Mohuda loop— Bhojudih to Bhage Bhage to Malkers Malkers to Mohuda	20-4-03 1-9-03 15-6-04	6 96 8 78 3 37			
Bhowra branch—	. 14-5-03	3.08	19-11		1
Bhojudih-Pathardihi link	1-2-06	0.86 0.62	3.08		
Connection of B. N. Ry, and E. I. Ry, at Noncodit.— Bengal-Nagpur Bailway's own line Bengal-Nagpur Bailway and East Indian Railway joint line.	1 -	0.46	1·48 1·39		
Kutras connections— Malkera to Katras Khanoodih to Katras	24-8-03 1-1-07	0·58 1·86	2.44		
Murulidih branch— Mohuda to Murulidih collieries	1-1-07	2.65	2.44		
Jamadoba loop—	. 16-9-03	5:42	2.65		
Kendua branch—	. 10-10-99	2.60	5·42 2·60		
Aldih branch—	. 1-2-06	2.24	2.24		
Visianagram-Parvatipuram extension— Visianagram to Bobbili Bobbili to Parvatipuram	24-12-08 8-3-09	33·18 15·20	48*38		
Bobbile Salur branch— Bobbili to Salur	. 1-5-13	10.87			
Kalimati-Gorumahisani extension— Kalimati to Onlajori Onlajori to Gorumahisani	1-2-11 6-4-11	34·12 5·98	10.87		
beharo Ramgarh extension— Bengal-Nagpur Railway's own line— Menhola to outersignal of Jamuniatand Bengal-Nagpur and Kast Indian Railways' joint line Outersignal of Jamuniatand to Chandrapura Chandrapura to 1'50 miles from Chandrapura 1'50 miles from Chandrapura Beotjion III.	27-11-18 27-11-18 1-4-15 1-4-15	4·18 6·02 1·50 10·08	40-10		
Kalamna-Itwari-Nagpur section— Kalamna vis Itwari to Nagpur	15-3-11	3.88	21·78 3·88		
Total open mileage, Bengal-Nagfur propre				891 °03 1,567°09	

BENGAL-NAGPUB BAILWAY SYSTEM-contd.

Bengal-Nagpur railway (5' 6" gauge)-contd.

Progress in opening -coxeld.

1	opening.	Miles.	Total.	Grand total.	Bemarka.	
1	2	8	4	5	6	
Brought forward			***	1,567:09		
ST COAST BAILWAY, NOBTHERN SECTION-		1 1				
Main line—	1					
Outtack to Bhubaneswar Bhubaneswar to Khurda Road Khurda Road to Rambha Bambha to Berbampore-Ganjam to Palaga Berbampore-Ganjam to Palaga Palasa to Parlakimedi Road (Naupada) Parlakimedi Road (Naupada) to Visianagram Visianagram to Waltagr Naupada salt branch	1-2-07 20-7-96 1-8-96 1-9-95 1-4-95 17-12-94 20-7-94 15-7-98	17·13 11·75 61·60 29·54 45·99 15·97 72·36 37·78 2·37				
			294-49			
Puri branch-	ĺ	1 1				
Khurda Boad to Puri	1-2-97	27:06				
			27.06			
TOTAL EAST COAST BAILWAY, NORTHERN SECTION .			•••	821.55		
Potal Open milrage, Bengal-Nagpub railway, 5' 6' gauge.			•••	1,888-64		
Under construction or sanctioned for con- struction—						
Baipur to Parvatipuram (sanctioned on 26th January		260.67				
1906) Kandra-Gomharia Chord (sanctioned on 24th June 1914)		5-58	000.00			
			266.20	000.00		
GRAND TOTAL, BENGAL-NAGPUE, 5' 6" GAUGE				2,154'84		
OUBLE LINE—	1					
Bungal-Nagpur proper—						
Howrsh to Santragachi Bautragachi to Bauria Bauria to Khargpur Shalimar Urandh Bankura to Adra	12-12-00 17-6-02 15-3-07 15-3-01 4-1-16	3:42 10:80 55:86 3:15 32:98				
TOTAL DOUBLE LINE .			106-21			

Details of construction-

- Permanent-way.—The line is laid with 75-lb., 85-lb. and 90-lb. steel rails on transverse wooden, steel and cast iron pot sleepers.
- Ballast.—The line is ballasted throughout with stone, except for a few miles on the Adra district (between Khargpur and Garbetta) where laterite is used.
- Fencing.—The line is fenced only between Nagpur and Kamptee and at the more important stations, also at some of the station yards and first class level crossings on the Barang-Waltair section.
- Curves .- On the main line there are no curves sharper than 1,000 feet radius.
- Gradients.—The ruling gradient between Asansol and Nagpur, and Bilaspur and Katni is 1 in 100; between Sini and Khargpur, 1 in 125; between Khargpur and Waltair, 1 in 150; between Khargpur and Howrah, and Khurda Boad and Puri, 1 in 200; and between Midnapore and Bhojudih, 1 in 200 in the down direction, and 1 in 125 in the up direction; and between Vizianagram and Parvatipuram, 1 in 125.

BENGAL-NAGPUR RAILWAY SYSTEM-contd.

Bengal-Nagpur railway (5' 6" gauge)-contd.

Contracts-

- Dated the 9th March 1887 (called the original contract), between the Secretary of State and the Bengal-Nagpur Railway Company, as to taking over certain State railways and the construction of other lines, and their management, maintenance and working.
- Dated the 31st December 1991 (supplemental to the contract of 1887), between the Secretary of State and the Bengal-Nagpur Railway Company, as to the construction and working of the Sambalpur Branch railway.
- Dated the 27th June 1901 (called the Debenture contract, supplemental to the contract of 1887),

 between the Secretary of State and the Bengal-Nagpur Rashway Company, as to the issue of debentures.
- Dated the 23rd January 1902 (supplemental to the contract of 1887), between the Secretary of State and the Bengal-Nagpur Railway Company, as to the construction of certain new lines and the working of the Northern section of the East Coast railway.
- Dated the 28th April 1908 (supplemental to the contract of 1887), helween the Secretary of State and the Bengal-Nagpur Railway Company, as to the adoption of 1s. 4d. per rupee as the "prescribed" rate of exchange.
- Dated the 22nd February 1910 (supplemental to the contracts of 1887, 1891, 1901, 1902 and 1903), between the Secretary of State and the Bengal-Nagpur Railway Company, as to the construction of certain further extensions and branch lines in connection with the Company's undertaking and to certain questions under the contract of 1902.
- Dated the 5th November 1912 (supplemental to the contracts of 1887, 1891, 1901, 1902, 1903 and 1910) between the Secretary of State and the Bengal-Naypur Railway Company, as to certain modifications of the original contract of 1887 as varied by the several supplemental contracts.
- Dated the 4th March 1914 (supplemental to the contracts of 1887, 1891, 1901, 1902, 1903, 1910 and 1912) between the Scoretary of State and the Bengat-Nagpur Railway Company, as to the adoption of the Government linancial year for the preparation of accounts.

Main provisions of contracts-

- (i) Land .- Provided by the Government at the cost of capital.
- (ii) Government aid.—Guarantee of interest at 4 per cent per annum in sterling on the Company's ordinary capital of £3,000,000 up to the 31st December 1913. Thereafter on this ordinary capital and on any further ordinary capital that may be required, the guarantee to be 3½ per cent.
- (iii) Distribution of profits-
 - (A) Up to 31st December 1913.—The net earnings for any complete calendar year up to December 1912, and thereafter for any complete financial year, after providing for:—
 - (a) payment to Government of interest on advances made by Government for capital expenditure on the Company's extensions and on over-drafts of capital in connection with open line capital expenditure, at 3½ per cent per annum up to and including 80th June 1909, and thereafter at 3½ per cent per annum (except for advances of capital expenditure on the Company's old extensions, interest on which continued to be paid at 3½ per cent per annum),
 - (b) repayment of interest paid by Government to the Company for that year, and
 - (c) payment of interest on capitalized interest under clause 21 of the supplemental contract, dated 23rd January 1902,
 - are divided in the ratio of \$\frac{2}{3}\$ths to the Government and \$\frac{1}{2}\$th to the Company if the ordinary capital of \$\mathbb{E}3,000,000 is not increased before that date. If the said capital is increased, the Company's share of surplus profits shall be increased by the fraction which shall bear to one-fourth the same proportion as the additional capital bears to the existing capital of \$\mathbb{L}3,000,000.

As from 1st January 1901, interest at 3½ per cent per annum on the capital expended by the Government on the Northern section of the East Coast railway, is a charge against the net earnings of the Company's undertaking, and the ½th share of surplus profits formerly payable to the Company is further divisible between the Government and the Company in the proportion which the gross carnings of the Northern section of the East Coast railway bear to the gross earnings of the remainder of the Company's undertaking.

- (B) From 1st January 1914.—With effect from the 1st January 1914, the net earnings attributable to the two half-years of a financial year, less—
 - (a) interest (not charged to capital under the provisions of the contract of 22nd February 1910) on debentures or debenture stock of the Company.
 - (b) guaranteed interest on Company's open line capital, and
 - (c) interest at 3½ per cent on the Secretary of State's open line capital,

shall be divided between the Secretary of State and the Company in the ratio of the average amounts during the year of the Secretary of State's open line capital and the Company's open line capital, in accordance with the contract of the 5th November 1912.

RENGAL-NAGPUR RAILWAY SYSTEM-contd.

Bengal-Nagpur railway (5' 6" gauge)-concld.

Main provisions of contracts-coneld.

- (iv) Rates and fares.—The Government to authorise maximum and minimum rates, and prescribe the various classes of passengers and goods as well as the extent to which, within the maxima and minima, the Company may vary the rates in respect of distance, weight or special conditions.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—To be conveyed on the same general conditions as those in force on State railways of the same gauge and at rates to be approved by Government.
 - (b) Government bullion and coin and the persons in charge thereof.—To be carried at special rates approved by Government.
- (vi) Power of the Government to determine contract.—The railway and its appurtenances are declared to be absolutely the property of the Government, which may determine the contract by giving twelve months previous notice on the 31st December 1950 or on the 31st December of any succeeding fifth year.

On the termination of the contract the Company is to hand over to the Government the railway and all its belongings of every description, and the Government are to repay the amount at par of the share capital which has been paid in by the Company.

The contract for the Sambalpur branch brings this branch within the provisions of the original contract of 9th March 1887, but provides that the Government may purchase the branch at any time after 1st January 1895, on giving twelve months' notice.

The contracts of 25rd January 1902 and 22nd February 1910 provide for the construction, maintenance and working of the new lines as part of the Company's undertaking, and are to remain in force until the original contract of 1887 shall be determined.

- (vii) Power of the Company to surrender contract .- Nil.
- (viii) Term of contract [if not determined under (vi) or (vii)] .- None specified.

Statistics of working (Those for the periods prior to 1888 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

Includes the Northern section of the late East Coast railway, the Gondia-Chanda, Jubbulpure-Gondia and Nagpur-Chindwara extensions and Purulia-Ranch and Raipur Dhamtari branches and Tumsar-Tirodi Light railway.

Year.	Mileage open at e nd of each year.	Total capita, sattay, including suspense, to end of each year, i, outly on (i) lines open and (ii) lines open cholly under construction.		Net carnings.	Percentage of net estuings on total outlay given in column (3).	Interest.	Company's share of surplus profits (based on terms of contract) attribut- able to cac's year.	Percentage of Company's share of net earnings (surplus profits plu- guaranteed interest on share capital) on Company's capital	Gain or loss to the State pertaining to each year,	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	G	7	н	ย	10	11	12
,	Males.	lis :	Rs.	15.		Кч.	Title .		l'a	Rs.	
1888 .	221/50	5 23,92,291	15,83,203	5,17,161	(0.00	23,63,947	1000		-18,45,486	136	67:32
1980	348*18	7.08.75,456	20,40,944	4,03,160		20,00,364			-25,93,201	112	80.25
1890 .	596.01	8,11,66,762	28,64,578	5,47,163	0167	33,88,853			-28,41,389	94	80.89
	1	1								1	
1891 .	631-58	9,08,01,164	54,57,356	28,84,453		35,05,676	***		-6,21,223	120	50'81
1892 .	831.28	9,56,14,736	60,83,562	30,08,166	3 05	39,05,345			-8,97,179		50.22
1803	802133	9,80,08,424	61,17,751	32,62,220		13,97,591		***	-11,35,371	144	49.17
1894	860.85	9,81,73,789	66,90,648	32,58,114	3:32	45,83,993			- 13,35,579	. 149	21.30
1895 .	860.38	9,58,94,777	68,71,740	35,11,411	3.29	43,56,800	***		-13,15,356	, 153	48-40
1896 .	P80-8H	11,05,30,319	63,68,525	29,27,869	2965	48,27,504			-18,99,635	113	54.03
1897	800*88	13,04,58,781		29,79,559	2:29	51,35,210			- 21,55,681	135	51.94
1898	1.067:41	14.67.03.520	61,79,193	33,63,854	2:29	54,28,180			-20,50,332	124	61 10
1899 .	1,190-16	16,65,90,365	90,73,160	47,21,811	2.63	59,75,853	1		~12,54,039	147	47:96
1900 .	1,284 35	17,41,74,604	1,20,75,223	77,13,050	113	64,90,637	1,93,591	***	+10,38,822	194	40.50
	1	1		i	i	1	1 1			1	i
1901 .	1,600.22	21,28,65,061	1,30,77,769	61,48,645	2*69	79,84,163			-18,30,515	156	63.89
1902 .	1,602.24	28,05,09,658	1,12,18,227	69,37,742	3.01	85,11,311			-16,06,569		51.31
1903	1,815.65	24,97,54,940	1,55,47,702	70,45,255	2982	89,66,131	1		-19,20,876		51.69
1904 .	1,965 68	26,14,35,453	1,89,12,137	95,87,326	3.67	95,41,021			+45,702	185	49.31
1905 -	1,980'17	27,33,72,870	2,44,70,900	1,34,01,052	4.60	1,00,32,315	6,67,100		+27,04,634	238	45.22
	1,998-50	28, 19, 18,582	2,69,47,181	1,41,51,252	1:07	1.03,41,779	7,89,837		+30.19.636	259	47:40
1906	2,113.35	30,91,90,534	2,59,80,537	1,48,16,149	4.50	1,04,35,545	9.21,460		+30,89,144	263	45:77
1907	2,300.86	32,30,77,888	2,71,55,900	1,11,06,971	3:52	1,13,34,518	.,,		+1.72.463		57-99
1908	0.040.00	38,91,49,381	2,87,72,437	1,31,42,676	3188	1,16,99,565	2,93,049		+11,59,063		54.32
1909 . 1910 .	2,395-39	34,75,04,066	3,08,52,867	1,50,32,327	4:33	1,20,01,393	6,32,281		+24,03,650		61.38
1910	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	03,78,03,000	0,00,00,00	1,00,00,00	1	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1 24,00,000		0.2
1911	2,488 92	25,59,06,842	3,39,70,014	1.68.21.823	4:73	1.2: 61,552	9,63,507	6.14	+35,98,764	262	50.48
1912	2,480.93	36,36,14,914	4,02,62,840	2,18,48,526	6.01	1,21,78,200	20,44,679	8:54	+73,25,611	311	45.74
lat or.		1	1		i		1	1	1	1	ł
of 1913.	2,489 92	36,86,24,074	1,15,26,259	69,47,752	1.61	31,56,237	5,83,674				48'40
1918-14	2,673.32	88,74,52,167	4,20,59,348	2,15,05,714	6.22	1,34,01,930	14,09,335	7.20			
1914-15	2,670 82	40,20,55,383	4,10,00,804	2,03,23,627	5.02	1,43,12,277	8,32,616				
1915-16	. 2,683-66	40,76,70,217	4,43,73,284	2,26,25,105	5∵6	1,47,79,386	10,91,708				49.01
1916-17		40,00,06,116	5,12,28,422	2,65,92,647	6.30	1.47,55,302	15,95,201				48.00
1917-18	. 2,741 00	41,38,74,577	5,63.92,542	3,01,82,863	7.28	1,63,17,608	20,22,026	7.99	4 1,37,93,221	1 396	46.57

The surplus profits for the year 1917-18 were divided between Government and the Company in the proportion of Ba. 26,89,46,917 to Ba. 4,50,00,000.
 176RB

BENGAL-NAGPUR RAILWAY SYSTEM-contd.

Gondia-Chanda Extension, Bengal-Nagpur railway (2' 6" gauge)-

Progress in opening-

•	. Sections of railway.											Miles.	Total.	Grand total.
1									2		3	4	., 5	
Main line— Gondin to Nagbhir . Nagbhir to Rajoli . Rajoli to Babupeth . Babupeth to Chanda	Fort	:	:	:	:	:	:	:	:		10-11-08 1-12-10 1-4-13 20-2-16	80.67 31.66 35.87		
Matenzianz . Nagbhir, vid Itwari to Line at Itwari	o Moti	bagh			:	•				{	19-11-98 10-41-08 15-3-11	65:59 0:90 1:49	149·27 67·98	
						Tor	r አ ጌ							217-25

Details of construction-

Permanent-way.—The line is laid with 40-lb. flat-footed steel rails on sâl sleepers.

Ballast.—The line is ballasted with stone and moorum.

Fencing. - The line is not fenced.

Curves .- The sharpest curve is of 955 feet radius.

Gradients .- The ruling gradient is 1 in 100.

Contracts-

The line forms an integral part of the Bengal-Nagpur railway and is worked under the contracts noted under Bengal-Nagpur railway (5' 6" gauge).

Statistics of working-

Included under Jubbulpore-Gondia Extension (2' 6" gauge).

Jubbulpore-Gondia Extension, Bengal-Nagpur railway (2' 6" gauge)-

Progress in opening-

Sections	of ra	ilway	у.						Date of opening.	Miles.	Tota1.	Grand tota
	1								2	3	4	5
Tain tine-									11.0.65	1.00		
Jubbulpore to Howback	•	•	٠	•	•	•	•	• }	15-9-95 7-4-05	1:00 16:56		1
Howbagh to Burgi		•	•	•	•	•	•	• 1			1	1
Burgi to Nainpur .		•		•	•		•	· i	5-7-04	51 00		1
Nainpur to Gondia .								- 1	18-1-03	73.73	* (0.30	1
Branches-								- }			142.39	ì
1andla branch —								-		26.40		ł
Nainpur to Garha Mandl	ι.								15-2-09		26.40	1
Barkuhi branch-								- I		47.10		1
Nainpar to Sconi									12-2-04	19.18		ł
	_								27-7-04	21.00		i
Chaurai to Chhindwara	- 1			- 1			-	. 1	1-9-04	16.13		1
Chhindwara to Khirsadol		•		•				. (15-3-06	5:36		1
Khirandoh to Barkuhi .	•	•	•	•	•	•		- 1	21-3-07		108:77	i
Intangi branch—	•	•		•	•	•	-	- 1		28.93		1
Balachat to Katangi .									1-5-13		28.93	1
palagnas to Kacangi .	•	•	•	•	•	•	•	٠,		5.42		1
71 11 72								1	1-11-13		5:42	1
Ram Rama Branch .	•	•	•	•	•	•	•	.	1-11-10		0 45	_{
		Тота						- 1				1 .
									***	!	•••	311.81
NURR CONSTRUCTION OR	SANC	TION	. 044	10 K	O NE	041	31107	- 1		8:43		•11.0T
Khirsadoh to Sirgora (sa	netio	ne t o			10 19	1792)		• !	•••	0.58		1
Portion of Itwar: Bazar s	onem	е.			•	•	٠.	. 1		0.99	0.03	1
								1			9.01	
												9.01
			0	RAND				i		j		300:82

Details of construction-

Permanent-way.—The permanent-way consists of 41-lb. flat-footed steel rails on sal sleepers.

Ballast.—The line is ballasted with stone, except between Seoni and Chhindwara where good black ballast has been used. Between Chhindwara and Barkuhi the ballast consists mainly of moorum.

Fencing .- Only important station yards are fenced.

Curves.—The sharpest curve is of 409 feet radius.

Gradients. - The ruling gradient is 1 in 80, except between Khirsadoh and Barkuhi where it is 1 in 60.

Contracts-

The line forms an integral part of the Bengal-Nagpur railway and is worked under the contracts noted under Bengal-Nagpur railway (5 '6" gauge).

BENGAL-NAGPUR RAILWAY SYSTEM-contil.

Jubbulpore-Gondia Extension, Bengal-Nagpur railway (2' 6" gauge)—concld.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

			1				
Year.	Mileage open at end of each year.	Total capital outlay, including ausponse, to ond of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings,	Net earnings.	Percentage of net carn- ings on total capital out- lay given in column (8).	Earnings per milo per week,	Proportion of expenses to earnings.
.1	2	3	. 4	5	6	7	8
1908 . 1909 . 1910 .	Miles. 397:67 428:46 458:57	Rs. 2,86,27,804 2,61,54,680 2,78,45,635	Rs. 10,91,800 11,86,743 14,62,244	Rs. 3,05,552 1,67,544 2,90,059	1·29 0·64 1·04	Ra. 58 53 59	72:01 85:88 79:81
1911 . 1912 . 1st qr.	507:59 508:66	3,21,83,455 8,47,04,985	15,64,717 18,00,931	3,59,177 5,19,768	1°12 1°50	5 9 68	77'05 71'14
of 1913, 1913-14 1914-15 1915-16 1916-17 1917-18	568:66 624:63 621:86 622:87 626:26 626:26	3,53,01,590° 3,73,01,570 5,87,20,451 4,02,71,995 4,00,73,512 4,02,00,345	$\begin{array}{c} 6.11,057 \\ 23.21,318 \\ 21.17,243 \\ 20,52,540 \\ 22,08,616 \\ 25,02,110 \end{array}$	2,21,399 6,11,012 8,90,901 1,58,457 3,61,479 6,20,169	0:63 1:64 1:01 0:39 0:90 1:54	92 71 65 63 68 77	63:77 73:68 81:54 92:26 88:63 75:21

Mourbhanj State railway (2' 6" gauge)-

Progress in opening-

Section of railway.	-	Date of opening,	Miles.	Total,
The second secon				
1		2	2	4
- Appropriate of Millians 1991 of the Control of th	- 1			
Rupsa to Baripada station	٠,	20-1-05	32141	93-11

Details of construction-

Permanent-way .- The line is laid with 31-lb, flat-footed steel rails on sal sleepers.

Ballast .- The line is ballasted with screened laterite, gravel and broken laterite.

Fencing .-- The line is unfenced.

Curres .- The sharpest curve is of 955 feet radius.

Gradients.-The ruling gradient is 1 in 100.

Agrooment-

Without date, between the Maharaja of Mourbhanj and the Bengal-Nagpur Railway Company, as to management, maintenance and working approved in Railway Bengl's letter No. 223-R.T. of the 10th March 1905.

Main provisions of agreement-

- (i) Land .- Provided by the Mourbhanj State at the cost of capital,
- (ii) Government aid.—The railway was constructed by the Mourbhauj State, whose property it is, and is managed, maintained, stocked and worked by the Bengal-Nagpur Bailway Company as if it were part of the Company's undertaking.
- (iii) Terms of working.—
 (iv) Distribution of profits.—
 The total amount of actual working expenses of the line, including cost of maintenance, is deducted by the Company from the gross receipts and the balance is paid to the Maharaja of Mourbhanj at the end of each year.
- (v) Rates and fures .- Controlled by the Company.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—
 (b) Government bullion and coin and the persons in charge thereof.—

 None specified.
- (vii) Power of the Maharaja to dotermine agreement.— The agreement is terminable on 31st December (viii) Power of the Company to surrender agreement.— I of any year on three months' previous notice, given by either party to the other.
- (ix) Term of agreement [if not determined under (vii) or (viii)] .- Not specified.

BENGAL-NAGPUR RAILWAY SYSTEM-contd.

Mourbhanj State railway (2' 6" gauge) -concld.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

Your.	Mileage open at end of each year.	Total capital outlay, in- cluding suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construc- tion.	Gross earnings.	Net carnings.	Percentage of net earn- ings on total capital out- lay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8
1908 1909 1910 1911 1912 1st qr. of 1913 1913-14 1914-15 1915-16 1916-17 1917-18	Miles. 12:41 32:41 32:41 32:41 32:41 32:41 32:41 32:41 32:41 32:41 32:41 32:41 32:41	B4, 7,18,970 7,10,675, 7,19,785 7,20,259 7,20,259 7,23,469 7,24,329 7,24,506 7,27,298 7,27,298	Re. 50,791 55,190 59,383 62,154 51,390 17,586 66,942 54,408 47,530 52,357 52,329	Rs. 28,638 24,269 25,256 33,480 22,906 9,985 97,274 24,839 10,357 12,568	3-98 3-37 3-51 4-65 8-18 1-39 5-15 3-48 2-24 1-42 1-73	Ra 30 38 35 37 30 42 40 32 28 36 31	48:62 56:26 56:70 46:13 55:42 48:16 44:82 54:36 66:62 80:22 75:98

Nagpur-Chhindwara Extension, Bengal-Nagpur railway (2' 6" gauge)-

Progress in opening-

Se	otions	of ra	ilway	٠.				Date of opening.	Miles.	Total.	Grand total.
	1							2	3	4	5
Main line— Itwari to Lodhikhera Lodhikhera to Sausar Sausar to Chhindwar Branches—	r .							1-1-11 10-5-11 20-10-13	42:35 7:40 38:91	88 ·6 6	
Saoner to Khopa Kutchidhana branch		•		•	•		•	1-1-11 20-10-1 3	4:50	4·50 4·04	
					Тот	3.6		 			97-29

Details of construction-

Permanent-way.—The permanent-way consists of 41-lb. flat-footed steel rails on sal sleepers.

Ballast.—Cuttings are fully ballasted and banks are being moorumed throughout.

Fencing .- The line is not fenced.

Curves. - The sharpest curve is of 636.6 feet radius.

Gradients.-The ruling gradient is 1 in 80.

Contracts-

This line forms an integral part of the Bengal-Nagpur railway and is worked under the contracts noted under Bengal-Nagpur railway (5' 6" gauge).

Statistics of working-

Included under Jubbulpore-Gondia Extension (2' 6" gauge).

Parlakimedi Light railway (2' 6" gauge)-

On the 20th May 1901 the Indian Railways Act, 1890 (IX of 1890), except section 135, was applied to the line. The working of this railway was taken over by the Bengal-Nagpur Railway Company from the 1st January 1902.

Progress in opening -

Section of railway.	. Date of opening.	Miles.	Total.
The second secon	2	3	4
Naupada to Parlakimedi	1-4-00	24.62	24-62

Details of construction-

Permanent-way.—The line is laid with 31-lb. flat-footed steel rails on transverse wooden sleepers.

Ballast .- The line is ballasted throughout with laterite, gravel and stone.

Fencing.—Short lengths of fencing have been provided in a few places where the railway runs in outtings alongside the road.

Curves .- There are no curves of less than 1,000 feet radius.

Gradients.-The ruling gradient is 1 in 100.

BENGAL-NAGPUR RAILWAY SYSTEM -contd.

Parlakimedi Light railway (2' 6" gauge)-concld.

Agreement-

Dated the 24th January 1905, between the Raja of Parlakimed; and the Bengal-Nagpur Railway Company, as to management, maintenance and working.

Main provisions of agreement-

- (i) Land .- Provided by the Raja of Parlakimedi at the cost of capital.
- (ii) Government aid.—The railway was constructed by the Raja of Parlakimedi, whose property it is, and is managed, maintained, stocked and worked by the bengal-Nagpur Railway Company as if it were part of the Company's undertaking.
- (iii) Terms of working.—
 (iv) Distribution of profits.—

 The total amount of actual working expenses of the line, including
- (iv) Distribution of profits.— is deducted by the Company from the gross receipts, and the balance is paid to the Raja of Parlakimedi.
- (v) Sates and fares .- Controlled by the Company.
- (vi) Special obligations as to the conveyance of.
- (vii) Power of the Roja to determine agreement.—

 The agreement is terminable on 31st. December of any year or, three months' previous notice given by either party to the other.
- (ix) Term of agreement [if not determined under (vii) or (viii.].—None specified.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

			process conservation of the					
Year.		Mileage open at end of each year.	Total orpical outlay, including suspense, to ond of each year, i.e., outlay on tip lines open and on lines portly or wholly under construction.	réro-s corcines.	Net enrain .	Persontage of net carnet get out tall control level by given in a dium (3).	Earnings per mile per week,	Proportion of expenses to earnings.
		2	3 1	4	5	6	7	8
		Miles.	Rs.	R «.	Ra.		Rs.	
1908	•	24/62 24/62 24/62	7,10,374 7,16,528 7,28,690	26,365 25,830 27,134		0:12 0:97 1:14	21 20 21	96'82 73'05 69'50
1911 1912 1st qr. of 1918 1913-14 1914-15 1915-16 1916-17		24/62 21/62 24/62 24/62 21/62 21/62 24/62 24/62	7.36,061 7,43,5<1 7,53,792 7,54,914 7,56,324 7,63,417 7,67,085 7,67,085	00,186 09,954 15,113 50,679 50,129 40,735 48,766 54,490	11,788	1/41 1/50 1/18 2/42 2/36 9/11 0/48 2/76	26 31 47 40 39 32 38 43	68-74 70-50 41-39 63-91 64-38 97-91 92-51 61-13

Purulia-Ranchi branch, Bengal-Nagpur railway (2' 6" gauge)-

Progress in opening-

D. A.					raily	•						 	Date of opening. 2 15-11-07		Miles.	Total.
Paralia to Ranchi Ranchi to Lohardaga	:	:	:	:	:	•	:	:	-	:	Тот	: 	6-10-13	-	72:68 42:62	115:30

Details of construction-

'Permanent-way.-The line is laid with 40-lb. flat-footed steel rails on transverse wooden sleepers.

Ballast .- The line is ballasted with stone and gravel.

Fencing .- Only the important level crossings have posts and chains padlocked.

Curves .- The sharpest curve is of 955 feet radius.

Gradients .- The ruling gradient is 1 in 80.

Contracts-

The line forms an integral part of the Bengal-Nagpur railway and is worked under the contracts noted under Bengal-Nagpur railway (5' 6" gauge).

176RB 3

BENGAL-NAGPUR RAILWAY SYSTEM-contd.

Purulia-Ranchi branch, Bengal-Nagpur railway (2' 6" gauge)-concld.

Statistics of working-

	Year	•		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines partly or wholly under construction.	Gross carnings.	Net carnings.	Percentage of net carnings of total capital outlay given in column (3).	Earnings per mile per week.	Proportion of exponses to earnings.
	1			[2	3	4	5	6	7	8
1908 1909 1910	:	:	:	Miles. 72.68 72.68 72.69	Rs. 41,71,748 47,56,235 48,51,707	Rs. 3,43,434 3,38,520 3,62,940	Rs. 2,23,979 1,86,980 1,88,155	5°37 3°96 3°88	Rs. 91 90 96	33·81 44·78 48·14
1911 1912 1st qr. 6 1913-14 1914-15 1915-16 1916-17 1917-18	of 1018	:	:	72:68 72:68 72:68 115:29 115:30 115:30 115:30	55,71,766 60,08,137 62,20,959 67,92,815 70,97,151 72,26,864 73,41,974 73,73,428	3,62,864 4,69,592 1,21,837 5,96,262 5,73,476 5,79,980 596,222 5,54,283	1,95,681 2,79,782 77,271 2,86,043 3,21,498 3,02,935 3,09,605 2,60,843	3.64 4.66 1.24 4.21 4.53 4.19 4.22 3.54	96 124 129 84 96 97 99	16:07 40:48 30:58 43:50 43:94 47:76 48:04 52:94

Raipur-Dhamtari branch, Bengal-Nagpur railway (2' 6" gauge)-

Progress in opening-

	Sec	tions	of r	ilwa	у.			Date of opening.	Miles.	Total.	total.
AND THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRE		1				 		 2	8	4	- 5
Main tine- Raipur to Kurad								10-9-00	21.50		
Kurud to Dhamtari								17-12-00	14:04		
Branck— Abhanpur to Rajim								15-10-0 0	11:40	45·54 11·40	
						Тет	۸ſ,				56.94

Details of construction-

Permaneuticusy.—The line is laid with 31-lb. flat-footed steel rails on sal sleepers. Ballast,—Moorum or sand and stone in a few cuttings.

Fencing .- The line is unfenced.

Carres.—The sharpest curve is of 361 feet radius, at Raipur station.

Gradients.—The ruling gradient of the line is 1 in 200.

Contracts-

The line forms an integral part of the Bengal-Nagpur railway and is worked under the contracts noted under Bengal-Nagpur railway (5' 6" gauge).

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 36 to the Railway Administration Report for 1907.)—

Y	ear.	Mileago open at ond of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Avens carnings.	Net carnings.	Percentage of net earnings on total enpital outlay given in column (3).	Earnings per mile per week.	Proportion of exponses to earnings.
	1	2	3	4	5	6	7	8
	- ////	Miles.	Rs.	Rs.	Rs.		Rs.	
1908 . 1909 . 1910 . 1911 . 1912 . 1st qr. o 1913-14 1914-15 1916-17 1917-18		56.94 56.94 56.94 56.94 56.94 56.94 56.94 56.94 56.94 56.94	14,18,139 14,20,138 14,20,136 14,22,037 14,73,100 14,84,688 14,84,663 14,88,663 14,88,663 14,98,2734 14,98,973	1,16,387 1,16,202 1,22,475 1,48,008 1,75,687 55,565 1,96,578 1,91,811 1,66,190 1,42,427 1,44,151	45,966 41,337 53,083 65,135 81,031 20,583 1,11,980 1,06,506 64,488 74,877 56,177	3:24 2:91 3:74 4:58 5:48 1:99 7:54 7:15 4:33 5:02 3:76	39 39 41 50 50 75 66 65 56 56	60'51 61'48 56'66 55'99 53'88 46'85 43'06 44'47 61'20 58'90 61'03

BENGAL-NAGPUR RAILWAY SYSTEM-concld.

Tumsar-Tirodi Light railway (2' 0" gauge) -

This line was purebased by Government from the Central India Mining Company and made over to the Bengal-Nagpar Railway Company for maintenance and working as a part of their undertaking with effect from the 1st April 1916.

Progress in opening-

Section of railway.	Bate of opening.	Miles.	Total.
The second secon			
' 1	2	3	4
promote the contract of the state of the sta		1	
Tumsar Road to Tirodi	1-4-16	51.10	51.10

Details of construction-

Permanent-way.—The permanent-way consists of 24 and 18-lb. flat-footed steel rails on sleepers of wood and corrugated iron.

Ballast .- The line is ballasted partly with stone and partly with moorum.

Fencing -The line is unfenced.

Curves. - The sharpest curve has a radius of 2865 feet.

Gradients - The ruling gradient is 1 in 42.

Contract --

There is no separate contract for this line which is being maintained and worked as an integral part of the Company's undertaking.

Statistics of working-

Included under Bengal-Nagpor railway (5' 6" gauge).

Panposh-Raipura railway (5' 6" gauge) -

Date of registration of the Company-25th May 1917.

The construction of this line by the Bengal-Nagpur Railway Company, on behalf of the Panposh-Raipura Branch Railway Company, was sanctioned in Railway B. ard's letter No. 489-P.-16, dated the 10th January 1917.

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
1	2	3	4
Panposh to Rahura (sauctioned on 10th January 1917)		14.30	14.80

Mayurbhanj Extension railway (2' 6" gauge)-

Date of registration of the Company-1915.

• The construction of this line by a branch line company was sanctioned in Railway Board's letter No. \$\frac{3}{2}\frac{3}{2}\frac{1}{2}\cdot \frac{1}{2}\cdot \frac{1}{2}\cdot

Progress in opening-

		,	
Section of railway.	Date of opening.	Miles.	Total.
1	2	8	4
Baripada to Talband (sanctioned on 11th September 1915)		88-71	38:71

Chairman.—MAJOR A. D. G. SHELLEY.
Secretary.—S. G. S. YOUNG, Esq.
Offices.—Gloucester House, 110, Bishopsgate, London, E.C.
Date of registration of the former company.—1855.

The property vested in the former Bombay, Baroda and Central India Guaranteed Railway Company was purchased by the Secretary of State on the 31st December 1905, from which date all the contracts then subsisting between the Secretary of State and that Company were determined, the Company was re-constituted and the railway was worked temporarily under the terms of the provisional contract, dated the 27th December 1905, pending the execution of the new contract, dated the 8th April 1907, as from the 1st January 1906. The purchase price was fixed at the sum of £11,685,581, and the Secretary of State agreed to create and issue to the Company, on the 31st December 1905, India 3 per cent stock to the amount of £10,089,148 in satisfaction of £9,645,581, part of the purchase price, the Company raising a new stock capital of £2,000,000 being the unpaid balance of the purchase money of £11,685,581.

Lines comprised in the system.—The Bombay, Baroda and Central India railway system is made up of-

							•		Open line,	Under construction or sanctioned for construction,	Total.
									Miles.	Miles	Miles.
(a) Bombay, Baroda and Central India rails	way (51 6"	gange	,)					997:12		997:12
(b) Nagda-Ujjain railway (5' 6" gauge)	٠,								32.51	•••	32°51
(c) Petlad-Cambay railway (Anand-Tarapur	section	ու) (5	66° g	ang	·)				21.42		21.42
(d) Petlad-Cambay railway (Tarapur-Camba	ау зес	tion)	(5' 6"	gai	ige)				12.36		12:36
•(c) Tapti Valley railway (5' C" gauge)									155 72	•••	155.72
(f) Bombay, Barods and Central India rail	way (8	′ 8,″	gauge	.)					1,821.61	•••	1,821.61
(g) Ahmedabad-Dholka railway (3' 32" gau	ge)				٠	٠	•	•	33:54		33.21
• (h) Ahmedabad-Parantij railway (3′ 3, ′ ga	age	•	•	٠			•	•	88.70		88.70
 (i) Gaekwar's Mehsana railway (3' 3;" gan 	ge)	•	•	•	• -	•	·· •	. •	162*63	29.66	192.29
(i) Jaipur State railway (3' 3;" gauge) .	•	•	•	•	•	• ·	•	•	17.28	70.82	178.86
 (k) Palanpur-Deesa railway (3' 3;" gauge) (t) Vijapur-Kalol-Kali railway (3' 3;" gauge)	•	•	•	•	•	•	•	46.11	91:90	17:28
(n) Bilimora-Kalemba railway (2 6 gauge)		•	•	•	•	•	•	•	34.93	21:30	67:41
(n) Bodeli-Chhota Udaipur railway (2' 6" g		•	•	•	•	•	•	•	22.56	17.91	52.81
(a) Broach-Jambusar railway (2' 6" gauge)	auges	•	•	•	•	•	·		29.69	***	22:56 29:69
(p) Gackwar's Dabhoi railway (2' 6" gauge	· ·	Ī		Ċ	Ċ	Ċ	Ċ		153.94	71:31	225.25
(g) Kosamba-Zankhyav railway (2' 6" gaug									26:10	22.57	48.67
(r) Petlad-Vaso railway (2' 6" gauge)									19:25		19:25
(s) Rajpipla State railway (2' 6" gauge) .									39.24	***	39.24
(/) Navsari Kamrej Light railway (2' 6" gar	ige)			•	٠		٠	•	***	20.00	20.00
				Tot	al				3,822*75	258.57	4,076*32
Running powers—											
Home line over foreign lines : -											
Dádár Junction to Carnac br	idge, (Ireat	India	n P	enins	ula 1	cail v	ay (fo	r goods trains	only).	1.30
Mahim to Cowari, Great Indi	an Par	ninsu	la rail	way	(for	pass	onge	rand	goods trains)		1.78
Muttra-Delhi section of the A										ins)	90.02
										Total .	96.13
Foreign lines over home line :-											
East Indian railway, Jumna	bridge	to.	Agra I	Fort	(for)	98886	ngo	r trair	s only) .		1.00
Great Indian Peninsula railw	ay at	Ujjai	n (for	pas	songe	ran	d go	ods tr	ains)		0.24
23 22 23							-		ls trains only)		7.25
" "		Idgal	to A	gra :	Fort	(for	luran	enger	and goods trai	ins)	1.32
										Total .	9.81

Bombay, Baroda and Central India railway (5' 6" gauge)—

Progress in opening-

	Section			ilwa							Date of opening.	Miles.	Total.	Grand total
			1								2	3		
Main line- Colaba to Marine line	s										18-1-70	2.00		
Marine lines to Charn	i Rose	đ						:			19-6-69	0.75		
Charni Road to Grant Grant Road to Bulsár	Road		•	•	•	•	٠	٠	•	•	3-9-68	0.76		
Bulsár to Navsári		:	:	:	:	:	:	:	:	:	29-11-64 2-9-61	121.00 24.25		
Navsári to Sachin								:	÷	:	20-5-61	9.25		
Sachin to Surat Surat to Amroli		<u>:</u>	•	٠.	•	•	. · .	•	- , •,,		18-3-61	9.00		
Amroli to Anklesvar		•	:	:	:	:	•	٠	•	•	19-11-60	2·25 28·75		
Anklesvar to the Ner	abbuc	•	:	:	:	:	:	:	:	:	5-12-60	26 75		
Amroli to Anklesvar Anklesvar to the Ner Nerbudda to Broach Broach to Baroda Baroda to Dholia			:	·			- 4 .				22-6-60	- 5.57		
Baroda to Baroda				•	٠		•	•	•	•	9-1-61 22-4-62	48.75		
Dholia to Mehmadaba Mehmadabad and Kai	d and	Kai	ra R	oad	:	:	:	:	:	- :	3-9-62	11·25 33·25		
Mehmadabad and Kai	ra Ros	ad to	Ahr	neda	bad		•				21-1-63	17:89		
Ahmedahad to Páharn	iati			•	-	•		•	•	•	1-1-70	3.75		
Sábarmati to Sánand Sánand to Viramgán		•	•	•	•	•	•	•	•	•	24-5-71 30-11-71	13·75 22·98		
Comments of the second		•	•	•	•	•	•	•	•	•	30-11-71	22 90	850-20	
Branches and sections -												1	000 20	1
Godhra branch-											0.4 7.1	10.75		
Ánand to Dákor . Dákor to Rukhyal .	:	:	:	:	•	•	:	•	•	:	8-4-74 6-1-75	16·75		1
Rukhyal to Hungari	:		:	:	:	:	:	:	:	:	6-12-76	9.00		
Hungari to Sevalia			•								29-1-77	4 71		
Sevalia to Godhra .	•	•	•	•	•	٠	•	•	•	•	26-2,82	16.76	40.00	
Pátri branch-											•		48.97	
Kharaghoda to Viram	gáma										12-5-73	22.12		!
6 11 8 1 1 1											. -		22.12	Į.
Godhra-Baroda chord — Baroda to Godhra											23-12-08	42:79		
Darma to Gettine	•	•	•	•	•	•	•	•	•	•	23-12-00	12.79	42.79	1
Godhra-Rutlam-Nagda	ection	_											42 10	
Godhra to Limkhera	•	•	•	•	٠	•		•	٠	•	16-1-93	25.44		
Limkhera to Dohad Dohad to Rutlam .	•		•	•	٠	•	•	٠	•	. '	7-3-91 22-10-91	19·55 70·46		
Rutlam to Nagda		:	:	:	:	:	:	:	:		11-5-96	26.04		
													141.49	
Nagda-Muttra section -														1
Nagda to Morak Morak to Kotah City Kotah City to Kotah	•	•	•	•	•	•	•	•	•		15-7-07 26-2-08	101.56		
Kotah City to Kotah	Juneti	ion	•		:	•	:	•	•		1-5-09	35 12		•
Kotah City to Kotah Kotah Junction to S	wai M	adho	opur		÷	:		:	:	·	1-5-09	3°48 67°38		1
Siwai Madhopur to O	ingapi	ır Ci	ity	•	•	•					1-6-09	39:00		I
Gangapur City to Hin Hindaun City to Mut	dann (noti	on	•	•	•	•	•	•	•	1-10-09 15-6-09	26:84 66:02		i
				•	•	•	•	•	•	•	10-0-05	00 03	339-10	
Agra branch-														
Bayana to Agra .	•	•	•	•	٠	•	•	٠		•	1-12-13	51.04	*1.04	
Mahim Cord Line in I	lahim	Yar	cd								11-8-14	0.15	51·04 0·12	
Kotah-Baran Line in	Kotab	Ya	rd					·	÷			0.99	0.99	1
								m.				- -		*****
UADRUPLE LINE -								16	T ≜ T,	•	li			997-12
Mahim to Bandra											1.5-17	1.00	1.00	
OUBLE LINE-											10270	0.00		
Colaba to Marine lines Marine lines to Charn		i	:	:	:	•	•	•	•	•	18-1-70 19-6-69	2:00 0:75		1
Charni Road to Grant Grant Road to Mahim	Road										13-9-68	0.76		
Grant Road to Mahim											20-7-65	5:44		
		•	•	•	•	٠		•	•		23-2-66 23-5-66	*0:07		* Excluding
Santa Cruz to Andher		:	:	:	•	•	•	•		:	29.8-67	1·83 2·71		the quadr t
Andheri to Bhayndar					:	•	:	÷	÷		27-4-85 1-10-85	13.33		pred scotto
Manim to Bundra. Bándra to Santa Cruz Santa Cruz to Andher Andheri to Bháyudar Bháyndar to Virár Virár to Pálghar Bálshar to Dáhánu Bo										- 1	1-10-85	10.84		
Virár to Pálghar .	. á	•	•	•	٠	٠	•	٠	•	• [1-12-97	19·28 20·37		
			:	•		•	:	•	•	•	20-4-00	6.89		
Dabánu Road to Gholy	un .								·	- 1	18-10-00	23:19		
Dáhánu Road to Gholy Gholyad to Daman Ro											29-1-02	16'44		
Daman Road to Bulsat		•	•	•	•			•	٠	- 1	31-4-02 1-7-87	33·50 6·30		
Daman Road to Bulsat	r i	:	:	:	:	:	:	:	:	: 1	5-4-68	2.70		
Daman Road to Bulsar Bulsar to Sachin Sachin to Kankra Kha	ri .				:			:	:		9-10-67	2.15		
Daman Road to Bulsar Bulsar to Sachin . Sachin to Kankra Kha Kankra Khari to Surat Surat to Utrau .											25-5- 98 1-10-98	6:40		
Daman Road to Bulsat Bulsar to Sachin Sachin to Kankra Kha Kankra Khari to Surat Surat to Utran	. :			•				•	•	• :	1-10-98	6:30 16:15		
Oniyai to Daman Ro Daman Road to Bulsai Bulsar to Sachin Sachin to Kankra Khan Kankra Khari to Surat Surat to Utran Utran to Sayan Sayan to Kim	. :		:	:	•						11-12-27			
Gnoiva'to Daman Ro Daman Road to Bulsát Bulsár to Sachin to Kankra Khari to Surat Surat to Utran Utran to Sáyan Sáyan to Kim Kim to Anklesvar	. Daid	i		:	:	÷	:	:			7-3-13	4.17		
Gnoiva'to Daman Ro Daman Road to Bulsát Bulsár to Sachin to Kankra Khari to Surat Surat to Utran Utran to Sáyan Sáyan to Kim Kim to Anklesvar	. Daid	i		:	:	:	:	:	:	:	11-12-99 7-3-13 15-10-99	4.17		
Gnoiva'to Daman Ro Daman Road to Bulsát Bulsár to Sachin to Kankra Khari to Surat Surat to Utran Utran to Sáyan Sáyan to Kim Kim to Anklesvar	. Daid	i		:	:	:	:	:	:	:	15-10-99	4·17 25·25 7·75		
Gnolval to Daman Ro Daman Road to Bulsár Bulsár to Sachin Sachin to Kankra Kankra Khari to Surat Surat to Utran Utran to Sáyan Sáyan to Kim Kim to Anklesvar	. Daid	i			:	:	:	:	:		15-10-99 15-5-97 7-6-05	4·17 25·25 7·75 12·07	,	
Gnoyar to Bunan tu Daman Road to Bulsa's Hulsa'r to Saohin . Sachin to Kankra Kha Sarat to Utran . Utran to Sayan Sayan to Kim Kim to Anklowar . Ankloswar to Norbudd Brouch to Miyagam Miyagam to Itola Irola to Baroda "C"	a Brid	igo ' cal	bin					:	:	:	15-10-99 15-5-97 7-675 10-4-16	4·17 25·25 7·75 12·07		
Gnoyar to Bushan tu Daman Road to Bulski Huisir to Saoliin Saohin to Kankra Khar Kankra Khari to Surat Surat to Utana Utana bi Kim to Ankloavar Ankloavar to Norbudd Broach to Miyagam Miyagam to Itola Uola to Baroda "C" Barois "C" Barois "G" Barbin to Barging to Almendaba	a Brid	igo ' cal			•		:	:			15-10-99 15-5-97 7-6-05	4·17 25·25 7·75 12·07	,	
Gnoiva' to Buhan tu Daman Road to Buhak Hulsar to Saohin Sachin to Kankra Kha Surat, to Utran Utran to Sayan Sayan to Kim Kim to Anklewar Anklewar to Norbudd Broach to Miyagam Miyagan to Itola Fola to Baroda "C"	a Brid	igo ' cal	bin	:	•	AL D	:		:		15-10-99 15-5-97 7-6-35 10-4-16 2-6-87	4·17 25·25 7·75 12·07 1·79 10·14	258-19	

Bombay, Baroda and Central India railway (5' 6" gauge) -contd.

Details of construction-

Permanent-way.—The main line is laid with 69-lb. double-headed, 82-lb. bull-headed and 90-lb. flat-footed steel rails on crossoted pine, Australian and oval pot sleepers.

The branches are laid mostly with 69-lb. double-headed and 75-lb. flat-footed steel rails on oval pot and wooden sleepers. The Godhra-Rutlam-Nagda section is laid with 75-lb. flat-footed steel rails on transverse steel, deedar, crossoted pine sleepers and cast iron pots and the Nagda-Muttra section with 87-lb. and 90-lb. flat-footed steel rails on sai, deedar, Australian wood sleepers and cast iron pots north of Nagda.

- Ballast.—The line is mostly ballasted with broken stone, gravel and shingle.
- Fencing.—Excepting the Patri branch the line is fenced throughout. One hundred and thirty-seven miles of the Godhra-Rutlam-Nagda section and the station yards only on the rest of this section, are fenced. On the Nagda-Muttra section most of the station yards only are fenced.
- Curves.—The sharpest curve on the main line and on the Godhra branch is of 1,500 feet radius, on the Patri branch of 2,865 feet radius, on the Godhra-Baroda chord of 1,910 feet radius, on the Godhra-Butlam-Nagda section of 1,000 feet radius and on the Nagda-Muttra section of 1,275 feet radius.
- Gradients.—The ruling gradient on the greater part of the main line is 1 in 500, but there are short lengths of 1 in 200 at the approaches to major bridges. On the Godhra branch the ruling grade is 1 in 200, except for a short length at the Mahi low level bridge where it is 1 in 80; on the Patri branch and the Godhra-Barods chord it is 1 in 300, except for short lengths of 1 in 200 on the latter. The ruling gradient on the Nagda-Muttra section is 1 in 200, as also on the Godhra-Rutlam-Nagda section with short lengths of 1 in 100 and from 1 in 101 to 1 in 150 between Godhra and Jekot.

Contracts-

- Dated the 8th April 1907 (called the principal contract), between the Sceretary of State and the Bombay, Baroda and Central India Railway Company, as to the maintenance, management and working, as from the 1st January 1906, of the Bombay, Baroda and Central India railway, the Rajputana-Malwa railway and other subsidiary lines.
- Dated the 15th October 1908 (called the Debenture contract, supplemental to the contract of 1907), between the Secretary of State and the Bombay, Baroda and Central India Railway Company, as to the issue of debentures or debenture stock of the Company.
- Dated the 24th October 1913 (supplemental to the contracts of 1907 and 1908), between the Secretary of State and the Bombay, Baroda and Central India Railway Company, as to the continuance with further modifications, with effect from the 1st January 1912, the principal contract of the 8th April 1907 and the adoption of the Government financial year for the preparation of accounts.

Main provisions of contracts-

- (i) Land.—Was provided by the Government free of cost to the former Company. After the 31st December 1905, the cost of land provided by the Government is debited to the appropriate capital account.
- (ii) Government aid.—The Government guarantee to pay to the Company interest at the rate of 3 per cent per annum on its stock capital of £ 2,000,000 raised in satisfaction of the unpaid balance of the purchase money of £11,685,531, also on the amount which shall for the time being have been paid to the credit of the Secretary of State in respect of any further ordinary stock which the Company may issue with his sanctiqu.
 - Capital required for the purposes of the undertaking after 31st December 1911 shall, at the option of the Secretary of State, either be advanced by him (in which case he shall be at liberty to call on the Company subsequently to raise money for its repayment), or be provided by the Company by the issue, at the Secretary of State shall decide, of further ordinary stock, or of debentures or debenture stock.
- (iii) Distribution of profits.— From the half-yearly gross earnings of the undertaking are deducted the working expenses of the undertaking and all other charges to Revenue account properly attributable to each half-year, the remainder, together with the interest to be credited by the Secretary of State in respect of any balance of unexpended capital in his hands under clause 19 of the contract of the 24th October 1913, being the net receipts.

Bombay, Baroda and Central India railway (5' 6" gauge)-concld.

Main provisions of contracts-concld.

The net receipts of the undertaking for each half-year, after deducting payments of net earnings to subsidiary lines, allowances for rebate, direction and other deductions are applied in repayment of interest for the half-year on any debentures or debenture stock of the Company and in payment to the Secretary of State and the Company of interest at 4 per cent per annum on the Secretary of State's preferred capital and on the average amount to the credit of the Company's Capital Account. Next in making good any deliciency in the net receipts of the first half-year of any year as compared to the payment chargeable thereon and mentioned above. The surplus of the two half-years of any year is next applied in payment of interest for the year at 4 per cent on the deferred capital of the Secretary of State and the balance if any remaining is standing to the eredit of the Secretary of State and the Company in proportion to the average amounts standing to the eredit of the Secretary of State and the Company respectively in the Government Capital Account and the Company's Capital Account, including in the Secretary of State's Capital both his preferred and deferred capital. The interest payable by the Secretary of State's under the guarantee of 3 per cent is to be deducted from the interest at 4 per cent per annum payable to the Company on the average amount to the credit of the Company's Capital Account.

- (iv) Rates and fares.—The Government will from time to time authorize maxima and minima rates, and prescribe the several classes and descriptions of passengers and goods to which such rates shall be respectively applicable, as well as the extent to which, within the authorized maxima and minima, the Company may vary the said rates. The Railway Board may at any time require the Company to quote such rates over the undertaking for both passengers and goods to and from the western ports between Karachi and Bombay, inclusive, including a rate from stations of origin and delivery where the route is either entirely or only partly over the undertaking, so as to secure equal treatment of such ports.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, high Government officials and Government stores.—To be conveyed on the same general conditions, and at rates to be approved by the Government not being less than those in force on State railways of the same gauge.
 - (b) Government bullion and coin, and the persons in charge thereof.—To be carried at special rates to be approved by the Government.
- (vi) Power of the Government to determine contract.—Contract may be determined by Government on the 31st December 1941, or on the 31st December of any succeeding fifth year, by giving to the Company in England, 12 calcular months' previous notice.
- (vii) Power of the Company to surrender contract .- Nil.
- (viii) Term of contract [if not determined under (vii) and (viii)] .- Not specified.
- Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 of the Railway Administration Report for 1907).

INCLUDES THE GODINA-RUTLAM-NAGDA AND NAGDA-MUTTRA SECTIONS from 1912. Percentage of Company's share of net earnings (surplus profits pius guaranteed interest on share capital) on Company's capital. Total capital out-lay including sus-pense to end of each year, i.e., outlay on (i) lines open and (ii) lines partly o wholly under construction. Company's
share of surplus
'profits (based on
terms of contract) attributalle to each Gara Percentage of net caru-ings on total capital out-lay given in column (3). Proj ton or capen. Mileage open at end of each year. Earnings Gros per week. year. . 10 its. + 26.85,502 + 42,29,694 + 23,19,987 + 40,64,445 + 43,14,196 Rs. 72,58,363 71,98,558 72,93,726 75,19,562 77,49,590 Rs. 12,63,16,478 12,96,92,431 Re 1,90,81,754 2,10,78,442 2,04,40,900 2,21,36,727 2,40,62,076 1,05,39,688 1,18,80,851 97,63,713 1,17,66,514 1,24,94,573 47 27 43 48 52 25 46 89 48 07 1906 1907 1**90**8 **19**09 1910 8:34 9:16 7:24 8:29 8:72 3,95,833 4,52,+99 H09 H52 780 844 917 504°35 945°85 14,92,98,743 21,95,74,123 4°47 5 11 1st qr. of 1918 945.85 22,35,94,288 85,37,004 46,88,922 2:00 25,74,807 2.22.040 1:47 +18,80,776 719 17:00 1913-14. 1914-15. 1915-16 1916-17 5.41.271 + 67,45,914 996 23 23,56,10,283 3,60,65,069 1,83,83,393 7:80 ,10,9**6,20**H 5:19 721 40.03 5.36.456 3,41,76,399 1,13,83,504 +45.82.961 996-30 24,41,98,233 1,65,02,921 6.76 4.67 660 51.71 .15.61.030 9,10,326 11,05,194 †12,70,777 +1,08,15,257 +1,08,15,257 +1,32,86,888 34,97,72,110 25,18,41,949 25,54,6%061 47:48 41:10 43:23 ż

Include State outlar on Pari branch, ric., R. 8.09.400.
This signs relates to the culture settem. It is made up of sornius profits for the year amounting to its. 8,90,377 and the excess arrounting to Rs. 3,80,400, of Interest at 4 per cent, per annum on the Company's preferred capital over. the grazuateed interest at 3 per cent, paid to the Company by the Secretary of State, and is inclusive of interest at 4 per cent and a modely of the share of varplus profits amounting to Rs. 9,0,365 do to Covernment or the statement of Bs. 20,10,000 from the 5' of gauge Provident Fund taken over by them. The surplus profits for the year were divided between the Covernment and the Company in the proportion of Rs. 62,31,78,700 to Rs. 3,01,000.

Nagda-Ujjain railway (5' 6" gauge)-

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
1	2	3.	4
Nágdá to Ujjain	15-7-96	39-51	32-51

Details of construction-

Permanent-way. - The permanent-way consists of 75-lb. flat-footed steel rails on cast iron oval pot-

Ballast.—The line is ballasted with broken stone

Fencing .- Only station yards are fenced.

Curves .- The sharpest curve is of 1,910 feet radius.

Gradients .- The ruling gradient is 1 in 200.

Agreement and contracts-

- Agreement, without date, having effect from the 15th July 1896, between His Highness the Maharaja Scindia of Gwalior and the Bombay, Baroda and Central India Railway Company, as to management, maintenance and working.
- Contract, dated the 1st February 1901, between the Secretary of State and the Bombay, Baroda and Central India Railway Company, as to the revising, and extending up to the 31st December 1905, of the arrangements for working the Rajputana-Malwa railway and other lines.
- Contract, dated the 8th April 1907 (called the principal contract), between the Secretary of State and the Bombay, Baroda and Central India Railway Company, as to the maintenance, management and working, as from the 1st January 1906, of the Bombay, Baroda and Central India railway, the Rajputana-Malwa railway and other subsidiary lines.

Main provisions of agreement and contracts-

- (i) Land .- Provided free of cost by the Gwalior Durbar.
- (ii) Government aid .- The line is the property of the Gwalior Durbar (which proviles all funds chargeable to the capital account), and is managed, maintained, stocked and worked by the Bombay, Baroda and Central India Railway Company as part of the Company's railway system.
- (iii) Terms of working.—
 (iv) Distribution of profits.—
 The Nágdá-Ujjain railway is debited with a share of the working expenses of the Company's railway system in proportion to the total carnings of the Nágdá-Ujjain railway in each half-year, and the balance in favour of or against the Gwalior Durbar is paid over to, or by it, as the case may be.
- (v) Rates and fores .- To conform generally to those in force on the Godhra-Rutlam-Nagda railway, unless otherwise specially agreed between the Durbar and the Company.
- (vi) Special obligations as to the conveyance of .-
 - (a) Mails, troops, high Government officials and Government stores.—Mails and postal officers on duty to be carried at the rates and on the conditions in force from time to time on State railways. (The agreement does not contain any provision for the carriage at special rates of troops, high Government officials and Government stores.)
 - (b) Government bullion and coin, and the persons in charge thereof.—Not specified.
- The agreement may be terminated at any time (vii) Power of the Durbar to determine agreement .on one year's notice from either party, expiring (viii) Power of the Company to determine agreement .-) on the 30th September or 31st March in any year.
- (ix) Term of agreement [if not determined under (vii) and (viii)] .- Not specified.

Nagda-Ujjain railway (5' 6" gauge)-concld.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907).—

Year.	Mileage open at end of each year.	Total capital outlay, including snaponse to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Not surnings.	Percentage of net earnings on total capital outlay given in column (8).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	, 6	7	8
	Miles.	Rs.	Ra.	Rs.		Rs.	
1908	34·32	22,40,441	1,95,401	83,228	3:71	109	57:43
	34·82	22,40,441	2,50,437	1,21,895	5:44	140	51:32
	34·82	22,40,600	2,59,680	1,34,098	5:98	146	48:50
1911	34·32	22,40,600	2,89,814	1,43,920	6:42	162	50:34
	34·32	22,40,600	3,21,181	1,64,593	7:35	180	48:75
	34·32	22,40,600	75,347	41,074	1:83	169	45:49
	34·32	22,42,194	8,26,870	1,65,627	7:39	183	49:33
	34·32	22,50,028	2,58,462	1,22,968	5:47	145	52:42
1915-16	34*32	22,58,063	3,48,441	1,86,781	8·29	195	46'40
	32*51	22,55,484	2,86,516	1,62,977	7·23	169	43'12
	32*51	22,55,481	2,61,688	1,46,039	6·47	155	14'19

Petlad-Cambay railway (Anand-Tarapur section) (5' 6" gauge)-

Progress in opening-

		See	tions	of r	ailw.	ι y .					1	Date of opening.	Miles,	Total.
	 			1			 	 				2	3	
Anand to Potlad										:	- ;	5-5-90	13:17	
Petlád to Tarapur										•	.,	20-6-01	8:25	
							 	 To	ra E	<u>.</u>				21.43

Details of construction-

Permanent-way.—The permanent-way consists of 664-lb. flat-footed steel rails on steel sleepers from Ānand to Petlád and on crossoted pine sleepers from Petlád to Tarapur.

Ballast.-The line is ballasted with gravel.

Fencing.—Thirteen miles, between Anand and Petlad, are fenced. The rest of the line is unfenced, except in station yards.

Curves .- The sharpest curve is of 1,433 feet radius.

Gradients.—The roling gradient is 1 in 200.

Agreements and contract-

Agreement, without date, having effect from the 5th May 1890, between the Government of His Highness the Maharaja Gackwar of Baroda and the Bombay, Baroda and Central India Railway Company, as to management, maintenance and working.

Contract, dated the 8th April 1907 (called the principal contract) between the Secretary of State and the Bombay, Baroda and Central India Railway Company, as to the maintenance, management and working, as from the 1st January 1906, of the Bombay, Baroda and Central India railway, the Rajputana-Malwa railway and other subsidiary lines.

Agreement, dated the 3rd March 1909, between the Government of His Highness the Maharaja Gackwar of Baroda and the Bombay, Baroda and Central India Railway Company, modifying the agreement of 5th May 1890.

Agreement, dated the 16th May 1910, between the Government of His Highness the Maharaja Gackwar of Baroda and the Bombay, Baroda and Central India Railway Company, modifying further the agreement of 5th May 1890.

Petlad-Cambay railway (Anand-Tarapur section) (5' 6" gauge) -concld.

Main provisions of agreements and contract-

- (i) Land,-Provided free of cost by the Baroda Durbar.
- (ii) Government aid. The line is the property of the Baroda Durbar (which provides all funds chargeable to the capital account), and is managed, maintained, stocked and worked by the Bombay, Baroda and Central India Railway Company as part of the Company's railway system.
- (iii) Terms of working.—
 (iv) Distribution of profits.—

 Excepting the cost of making good damages due to extraordinary casualty which is borne by the Durbar and is chargeable against capital, the Petlad railway is debited for maintenance and working expenses, earnings as may be incurred in the half-year on the 5' 6" and 3' 3\mathbb{g}" gauge lines of the Bombay, Earnings as may be incurred in the harryear of the 3 of and 3 3g gauge lines of the blombay, Baroda and Central India railway system, and with any single item of capital expenditure not exceeding Rs. 1,000 classed as a 'Minor work,' subject to a maximum charge on such account of an amount bearing the same percentage of gross receipts as obtains for similar expenditure on the Bombay, Baroda and Central India railway. The balance in favour of or against the Baroda Durbar is paid over to, or by it, as the case may be.
- (v) Rates and fares.—To be fixed from time to time by the Company with the approval of the Durbar, but in the absence of any special agreement between them, they are, as far as may be, to conform to those generally in force on the Bombay, Baroda and Central India railway (5'6" gauge).
- (vi) Special obligations as to the conveyance of .-
 - (a) Mails, troops, high Government officials and Government stores.—Mails and postal officers on duty to be carried at the rates and on the conditions in force from time to time on State railways in British India. (There is no provision for the carriage at special rates of troops, high Government officials and Government stores.)
 - (b) Government bullion and coin, and the persons in charge thereof.—Not specified.
- (vii) Power of the Durbar to determine agreement. Either party may at any time determine the agreement on giving 12 months' notice to the
- other. (viii) Power of the Company to determine agreement .-
 - (ix) Term of agreement [if not determined under (vii) and (viii)] .- Not specified.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907) .-

	Mileago open at end of each year. (i) lines partiy or wholly under construc- tion.	Gross	Net earnings.	Percent- age of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to carnings.
1	2 8	4	5	6	7	8
y y	Miles. Rs.	Rs.	Rs.		Rs.	
1908	21:50 11,31,294 21:50 11,31,692 21:50 11,83,238	1,86,283 1,88,042 2,19,645	80,125 90,705 1,13,373	7:08 8:01 10:00	167 168 196	56:99 51:76 48:88
1911	21:50 11,39,45% 21:50 11,46,673 21:50 11,47,125 21:50 11,59,073 21:50 12,02,487 21:50 12,62,487 21:62 12,76,018 21:42 12,76,018 21:42 12,76,018	2,39,635 2,54,948 62,414 2,43,277 2,61,224 2,78,838 2,81,393 2,74,851	1,19,183 1,29,527 33,937 1,21,880 1,24,590 1,45,892 1,61,221 1,58,583	10·46 11·30 2·96 10·60 10·35 11·52 12·68 11·96	214 228 223 218 234 249 253 247	50°26 49°19 45°55 49°90 52°34 47°89 42°71 44°12

Petlad-Cambay railway (Tarapur-Cambay section) (5' 6" gauge)-

Progress in opening-

		Sec	tion of	railw	ay.				Date of opening.	Miles.	Total.
	 		1				 		2	8	4
Tarapur to Cambay .	•					•	•	•	20-6-01	12:36	12· 36

Petlad-Cambay railway (Tarapur-Cambay section) (5' 6" gauge)-concld.

Datails of construction-

Permanent-way, .- The permanent-way consists of 661-lb. flat-footed steel rails on creosoted pine sleepers,

Ballast .- The line is ballasted with gravel.

Fencing .- Only station yards are fenced.

Curves .- The sharpest curve is of 1,910 feet radius.

Gradients, -The ruling gradient is 1 in 600, with a rhort length of 1 in 200 between Sayama and Cambay.

Agreements and contract-

Agreement, dated the 17th May 1902, between the Cambay Durbar and the Bombay, Baroda and Central India Railway Company, as to management, maintenance and working.

Contract, dated the 8th April 1907 (called the principal contract), between the Scoretary of State and the Bombay, I aroda and Central India Railway Company, as to the maintenance, management and working, as from the 1st January 1906, of the Bombay, Baroda and Central India railway, the Rajputana-Malwa railway and other subsidiary lines.

Agreement, dated the 17th October 1908, between the Cambay Durbar and the Bombay, Baroda and Central India Railway Company, modifying the agreement of 17th May 1902.

Agreement, dated the 10th May 1910, between the Camban Durbar and the Bomban, Baroda and Central India Railway Company, modifying further the agreement of 17th May 1902.

Main provisions of agreements and contract-

- (i) Land .- Provided free of cost by the Cambay Durbar.
- (ii) Government aid.—The line is the property of the Cambay Durbar (which provides all funds chargeable to the capital account), and is managed, maintained, stocked and worked by the Bombay, Baroda and Central India Railway Company as part of the Company's railway system.
- (iii) Terms of working .--
- (iv) Distribution of profits .-
- (v) Rates and fares .-
- (vi) Special obligations as to the conveyance of .-
 - (a) Mails, troops, high Government officials and Government stores .-
 - (b) Government bullion and coin, and the persons in charge thereof .-
- (vii) Power of the Durbar to determine agreement .-
- (viii) Power of the Company to determine agreement .-
- (ix) Term of agreement [if not determined under (vii) and (viii)] .-

As noted under Petlad-Cambay railway (Anand-Tarapur

section) (5'6" gauge).

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907).—

	Y	ear.		Miloage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gro≈s carnings.	Net earuiugs.	Percentage of net carnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to carnings.
		1		2	3	4	5	6	7	8
				Miles.	Rs.	Rs.	Rs.		Rs.	
1908 1909 1910	:	:	:	12:30 12:30 12:30	8,10,876 8,50,220 8,57,150	44,098 43,431 51,709	18,932 20,982 26,668	2:33 2:47 3:11	69 68 81	57:07 51:60 48:48
1911 1912 1st qr 1913-1 1914-1 1916-1 1917-18	5 6 7	1913	:	 12:80 12:30 12:30 12:30 12:30 12:30 12:36 12:36	8,65,463 8,66,068 8,66,019 8,67,002 8,74,561 8,75,949 8,80,659	57,830 57,833 15,617 53,711 60,852 C8,054 70,620 64,122	28,728 29,157 8,492 27,045 29,040 35,634 40,528 35,795	3'98 3'87 0'98 8'12 3'35 4'07 4'63 4'06	90 90 96 84 95 100	47·85 43·62

Tapti Valley railway (5' 6" gauge)-

Date of registration of the Company .- 17th June 1896.

Progress in opening -

	Sec	tions	of re	ailwa	y.						Date of opening	Miles.	Total.
		1									2,	3	4
Kankra Khari to Vyara										•	1-12-98	35:59	
yára to Chinchpáda Chinchpáda to Nandurbár	•	•	•	•	•	•	•	•	:	:	5-6-99 20-7-99	36·55 25·20	
andurbár to Dondaiche	÷	·	÷	:	÷	÷	Ċ	·		:	10-11-99	21.48	
ondaiche to Nardána											25-11-99	19.88	
Vardána to Amalner .		•		•		•	•	•	•	•	15-3-00	1 6*9 2	
								Тот	ΑL				155.72

Details of construction-

Permanent-way.—The permanent-way consists of 70-lb, with a small bit of 75-lb, flat-footed steel rails on wooden sleepers.

Ballast .- The line is ballasted throughout with stone.

Fencing. -Only station yards and important level crossings are fenced.

Curves. - The sharpest curve is of 1,910 feet radius.

Gradients .- The ruling gradient is 1 in 200.

Contracts-

- Dated the 28th August 1896 (called the principal contract), between the Secretary of State and the Tapti Valley Railway Company; as to the construction.
- management, mainten-ance and working of the Dated the 30th October 1896 (set forth in the schedule to the principal contract of 1896), between the Secretary of State and the Bombay, Baroda Tapti Valley railway. and Central India Railway Company;
- Dated the 1st February 1901, between the Secretary of State and the Bombay, Baroda and Central India Railway Company, revising, and extending up to the 31st December 1905, the arrangements for the working of the Rajputana-Malwa and other lines.
- Dated the 16th January 1902, between the Secretary of State and the Tapti Valley Railway Company, modifying the terms on which the Company's line is worked by the Bombay, Baroda and Central India Railway Company.
- Dated the 8th April 1907, between the Secretary of State and the Bombay, Baroda and Central India Railway Company, as to the maintenance, management and working, as from the 1st January 1906, of the Bombay, Baroda and Central India railway, the Rajputana-Malwa railway and other subsidiary lines.
- Dated the 20th August 1907, between the Secretary of State and the Tapti Valley Railway Company, for the continuance of the working of the Tapti Valley railway on the terms in force on the 31st December 1905.
- Dated the 10th July 1908, between the Secretary of State and the Bombay, Baroda and Central India Railway Company;
- ment agreed upon for the improvement of the rebate from interchanged traffic payable to the Tapti Dated the 12th November 1908, between the Railway Company by the Bombay, Baroda and Central Secretary of State and the Tapti Valley India Kailway Cempany. Railway Company;

giving effect, as from the 1st July 1908, to the arrange-

Dated the 30th June 1916, between the Secretary of State, the Tapti Valley Railway Company and the Bombay, Baroda and Central India Railway Company (supplemental to the contracts of 28th August and 30th October 1896, 16th January 1902, 26th August 1907 and 12th November 1908) as to the adoption of the Government financial year for the preparation of accounts from the 1st April 1913.

Main provisions of contracts-

- (i) Land .- In British territory provided by the Government free of cost to the Company. The Secretary of State to use his influence to obtain the free grant of land in Native States.
- (ii) Government aid .-(ivi) Terms of working . -
- (ii) Government aid.—
 (iii) Terms of working.—

 The Government constructed the one from made supposed (iv) Distribution of profits.—

 The Government constructed the one from made supposed (iv) Distribution of profits.—

 The Government constructed the one from made supposed (iv) pany), and manage, work, stock and maintain it, through the agency of the Bombay, Baroda and Central India Railway Company. During the Bombay, Baroda and Central India Railway Company relating to the working of State branches, the charge to the Tapti Valley Railway Company in each half-year for the provision of rolling-stock and the working and maintenance of the line, is the share of the general working expenses of the whole of the 5' 6" and 3' 3\" gauge systems of railways worked by the Bombay, Baroda and Central India Railway Company which is attributable to the Tapti Valley railway in proportion to its Barods and Central India railway 5' 6" and 3' 3\cdots\(^2\) gauge systems of the gross earnings from traffic interchanged between those railways which the Government are entitled to retain, provided that the charge is not to exceed 44 per cent of the gross carnings in any year. In the event of the

Tapti Valley railway (5' 6" gauge) -concld. Main provisions of contracts-coneld.

termination of the contracts above referred to, the charge is to be a percentage of the gross ranings not exceeding in any half-year that obtaining on the Bombay, Baroda and Central India railway, nor in any year 50 per cent. The residue of the gross earnings, after deduction of

the charge for working, etc., is payable to the Tapti Valley Railway Company.

By agreement with the Bombay, Baroda and Central India Railway Company, the Government allow to the Tapti Valley Railway Company in respect of each year, by way of rebate, a sum not exceeding 45 per cent of the combined shares attributable to the Bombay, Baroda and Central India railway 5'6" and 3'88" gauge systems of the gross earnings from traffic interchanged between those railways, or either of them, and the Tapti Valley railway, as will, together with the net earnings of the Tapti Valley Railway Company, make up an amount equal to interest for the year at the rate of 4 per cent per annum on the actual capital expenditure. The Government also allow to the Company the sum of Rs. 6,000 per annum towards its office expenses and expenses of management.

- (v) Rates and fares.—To be such as may from time to time be arranged between the Government and the working agency, but it is provided that they shall be within the maximum and minimum rates and fares for the time being in force on the Bombay, Baroda and Central India railway 165 6" gauge). The classification of goods is to be in conformity with that in force on the Bombay, Baroda and Central India railway (5' 6" gauge).
- (vi) Special obligations as to the conveyance of .-
 - Special obligations as to the conveyance of.—

 (a) Mails, troops, high Government officials, and Government stores.—

 (b) Government bullion and coin, and the persons in charge thereof.—

 As in the case of Bombay, Baroda and Central India railway As in the case of
- (vii) Fower of the Government to determine contract.—The Government may, by giving 12 months' notice, determine the contract and acquire the railway-
 - (a) on the 31st December 1921, or at the end of any subsequent period of 10 years, in which case the Government undertake to pay to the Company in rapees a sum equal to 25 times the average yearly net earnings of the Company during the last preceding five years, provided that such sum shall not exceed by more than 20 per cent the total capital expenditure of the Company, nor be less than such capital expenditure; or
 - (b) on the 31st December 1950, in which ease the Gove ment will pay to the Company in rupees an amount equal to the total capital expenditure.
- (viii) Power of the Company to surrender contract-Nil.
 - (ix) Term of contract [if not determined under (vi) or (vii)] .- Not specified.

Statistics of working-

		Total								-	
Year.	Mileage open at end of each year.	capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net earnings.	of net earnings on total capital	from the Bom- bay, Baroda atd Central India	Total income.	Percentage of total income on total capital outlay given in column (3).	Earn- ings per mile per week.	Propertion of expenses to carnings.	Remarks.
1	3	3	4	5	6	7	8	9	10		12
1898 1890 1900	Miles, 35.91 138.88 155.45	R6. 82,70,413 1,21,09,133 1,28,31,291	Rs. 2,836 2,42,593 , 6,68,475	Rs		Rs.	Rs. 		Rs. 18 73 85	48:70 47:40 17:68	The not carnings for 1898, 1899 and 1st-half of 1900 were credited to interest on capital,
1301 1902 1903 1904 1905	155:48 155:48 155:48 155:48 155:48	1,29,18,730 1,29,70,581 1,30,02,400 1,30,77,018 1,30,83,629	6,00,553 8,26,485 8,62,758 6,58,740 10,11,222	3,42,243 4,63,242 4,83,142 3,68,894 5,86,921	2·65 3·57 3·72 2·82 4·49	33,226 45,196 40,258 28,441 2,928	3,75,469 5,08,438 5,23,400 3,97,835 5,89,849	2:90 3:92 4:03 3:04 4:51	71 102 107 81 125	43:01 42:05 44:00 44:00 41:96	and those for 2nd-half of 1900 (including re- bate) were treated as a set off against the charge to capital for interest in the ac- counts for 1st-half of
1906 1907 1908 1909 1910	155:48 155:48 155:48 155:48 155:48	1,80,82,853 1,30,97,237 1,30,90,929 1,31,10,800 1,31,20,549	11,34,712 10,34,612 9,98,927 11,06,564 11,85,910	6,35,460 5,79,383 5,59,399 6,19,676 6,64,110	1.86 4.42 4.27 4.73 5.06	::: :::	6,35,460 5,79,383 5,59,399 6,19,676 6,64,110	4.86 4.42 4.27 4.73 5.06	140 128 124 137 147	44.00 44.00 44.00 44.00	1901.
1911 1912 1st gr.	155:48 155:48	1,81,37,174 1,31,41,972	12,91,825 14,36,446	7,23,422 8,04,410	5·51 6·12		7,23,422 8,04,410	5·51 6·12	160 178	44:00 44:00	
of 1918.	155.48	1,31,43,606	4,01,816	2,25,017	1:71		2,25,017	1:71	199	14.00	
1913-14 1914-15 1915-16 1916-17 19178	155.48 155.48 155.72	1,31,47,512 1,31,78,535 1,32,93,810 1,32,19,781 1,32,37,221	15,92,836 13,20,802 17,92,141 15,55,554 15,74,902	8,91,988 7,30,649 9,64,399 8,91,235 8,81,945	6.78 5.61 7.80 6.75 6.66	 	8,91,988 7,89,649 9,64,899 8,91,238 8,81,945	6·78 5·61 7·80 6·75 6·66	197 163 213 192 194	44 00 44 00 43 63 46 00	

Bombay, Baroda and Central India railway (3' 3%" gauge)-

Progress in openin;-

Agra branch	Sections of railway			Date of opening.	Miles.	Total.	Grand total.	Banares.
Main line	1		7.7	2	3	4	5	6
Delhi to Bow4ri Rewf. 10 Advant 14-75 40-10 14-10	RAJPUTANA SECTION-		-					
Bedwar to Haripide 134-79 20-85 14-10-10 14-1	Delhi to Rewári Bewári to Alwar Alwar to Bandikui Bandikui to Dausa Dausa to Jaipur Jaipur to Phulora Phulora to Ajmer		: :	15-9-74 7-12-74 20-4-74 12-10-74 1-8-75 1-8-75	46·10 37·51 17·84 38·14 34·20 49·92		3	
Pranches and estimations Section Virangam Wadham section	Beawar to Haripúr Haripúr to Sojat Road Sojat Road to Pálanpur Pálanpur to Ahmedabad New zero of Ahmedabad-Dholka ra	ilway to		12-8-79 20-10-80 1-1-81 15-11-79	20.85 20.54 148.44 82.36			
Virangam to Wadhwan*	•	• •		12-2-00	0 00	KQ0-1Q		
Farukhnagar Salt branch						200 10		
Fartikhanger Salt branch	Virangam to Wadhwan*			14-12-02	39.05			
Bhartupur Agra Fort to Junus, East Bank (Agra) 11-67 11-67 17-6 17-	Farukhnagar Salt branch			14-2-73	7:64	3 9·0 5		*This section was opened or
Simblar Lake Sal branch 12-75 4-75 4-75 14-7	Bandikui to Bharatpur Bharatpur to Agra Fort		: :	11-8-73	38.24	7.64		1872 and
1992 1992 1995	Sámbhar Lake Salt branch	Agra).		1-3-75	4:50	95.02		the 3' Sa' gauge, from 14th December
Main line	Extension of Sambhar branch to Jhov Kankaroola Salt branch	ra : lake	: :	20-12-79 15-2-81	17:00 1:25			1902,
Khandwat to Sandwald to Mortakka	MALWA SECTION-			-		33.43		
Nasirabad to Ajmer	Khandwa to Sanúwad Sandwad to Mortakka Mortakka to Choral Choral to Mhow Mhow to Indore Indore to Fatchabad Junction. Fatchabad Junction to Rutlam Rutlam to Juora Jaora to Mandsaur Mandaur to Neemuch Noemuch to Nimbahera Nimbahera to Chitorgarh.			1-4-74 20-1-75 1-1-78 3-8-76 3-8-76 11-7-78 25-2-80 8-4-F0 2-7-80 10-3-81 19-3-81	8:50 20:50 15:69 13:00 25:23 48:75 20:50 31:75 30:25 16:40 17:65			
CAWNFORE-ACHNERA SECTION— Main time— Cawnpore Mill line Cawnpore to Kamanj Cawnpore Mill line Cawnpore to Kamanj Cawnpore to	Nasirabad to Ajmer Uijain branch— Entshahad to Hijinin	na Sinra ri		3-8-76	12:00	892-22		
Cawnpore Mill line 204-09 234 are on the Cawnpore to Kananj 15-12-89 1-2-89 49-20 Kananj 15-12-89 1-2-81 3077 is on the Sanah		S.pia i	10		12 00	11.88		†Of this 2:10 miles, from
Branches	Main tine— Camppore Mill line Camppore to Kununj Kannuj to Farukhabad Farukhabad to Kasganj Kasganj to Hathrus Road Lumna bride Lumna bride Lumna bride Muttra Cantonnee Liuma bride Lumna		: :	15-12-80 1-2-81 14-4-84 1-7-84 19-10-75 1-7-84 11-11-07	49:20 36:71 66:78 34:04 29:11 1:00 2:32			sipra Juneson to Sipra station, opened in 1899 are on the 5' 6" gauge and is worked by B.B.and C.I. 5' 6" gauge railway.
Brindmagart branch 10-11-85 478 10-11-85 12-03 12-04 12-03 12-03 12-03 12-03 12-03 12-03 12-03 12-04 12-04 12-04 12-05 12-		• •	٠.	7-11-81	20.95	242-45		
Moist line — 20-3-83 88-20 Rewari to Hissar 1-1-84 50-75 Hissar to Sirsa 1-1-84 50-75 Sirsa to Kot Kapúra 1-10-64 73-24 Kot Kapúra to Fásilka 1-1-85 50-20 Rewari-Pulera Chord — 1-1-2-04 32-35 Narmaul to Phulora 18-9-05 100-33	Brahmavart branch	: :	: :			12.03		
Rewart to Hissar 20-3-83 88-20 Hissar to Siras 1-1-84 50-75 Siras to Kot Kapúra 1-10-84 73-24 Kot Kapúra to Fásilka 1-1-85 50-20 Rewart to Pásilka 1-1-2-04 32-35 Narmaul to Phulera 18-9-05 100-33	ewāri-Bhātinda-Fāzilka section-	_	.					
Rewart - Phulera Chord	Rewari to Hissar	: :		1-1-84 1-10-84	50·75 73·24	988·4K		
	Rewari to Narnaul	: :	: :		32·55 100·53	133 08		

Bombay, Baroda and Central India railway (8' 33" gauge)-contd.

Progress in opening-concld.

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	Remarks.
1	2	3	4	5	6
Brought forward			•••	1,612-43	
Agra East Bank to Idgah Agra (worked by East	1-1-76	*3* 07			Of this the
Indian railway). At Idgah Agra (worked by Bombay, Baroda and		0.29			length over the Jumna bridge
Central India 5' 6" gauge) railway. At Delhi (worked by Great Indian Peninsula rail-	12-11-03	0.00			is of mixed (5'6" and 3'
way). Nangal-Raya Extension at Delhi (worked by North-Western railway).	22-6-15	+ 5·73	9:18	404-71	31") gauge. † Opened for goods and troop traffic
Total			•••	1,821.61	only.
OUBLE LINE, RAJPUTANA SECTION 8'81" gauge					
Agra Fort to Idgah Agra	11-8-73 25-12-02	1·14 1·78			
5' 6" gauge At Delhi	27-2-05	0.09	2·92 0·09		
TOTAL DOUBLE LINE			0.03	3.01	

Details of construction --

Permanent-way.—The Rajputana section is laid with 50-lb. flat-footed steel rails on deodar sleepers excepting 20-08 miles north of Phulera station which have been relaid with 60-lb. rails on steel trough sleepers. The Malwa section has mixed 40-lb. iron, 414-lb. and 50-lb. steel flat-fcoted rails on deodar sleepers. The Cawnpore-Achnera section has 414-lb. and 50-lb. steel rails on deodar sleepers. The Rewári-Fázilka section has 414-lb. steel rails on deodar sleepers.

Bullast .- The line is ballasted throughout with stone, kunkur, sand and hard quartz.

Fencing.—The following lines are fenced: (1) Rajputana section main line. Delhi to Ahmedabad vid the Rewari-Phulera chord, 521.18 miles; Rewari-Paudikui-Phulera loop, 173.76 miles, and branches, 94.61 miles; (2) Malwa section, main line, Khandwa to Ajmer, 98.30 miles, and branch, 2.17 miles; (3) Cawupore-Achnera section, main line, 148.23 miles and Brindaban branch, 2.69 miles; and (4) Rewari-Fázilka section, 114.62 miles, including stations.

Curves .- The sharpest curve is of 600 feet radius.

Gradients.—On the main line of the Rajputana section. Delhi to Ahmedabad, vii Rewari-Phulera chord; on the Rewari-Bandikui-Phulera loop; and on the Brahmavart branch, the ruling gradient is 1 in 150. On the Agra branch it is 1 in 150, except for 1,058 feet where it is 1 in 142 and 841 feet where it is 1 in 146 at mile 1. On the Sambhar branch, it is 1 in 200, except for 3,810 feet where it is 1 in 150 at the beginning of the line. On the Farukhnagar branch it is 1 in 100. On the Malwa section it is 1 in 150, except between Khandwa and Kalakhund where it is 1 in 100 and between Kalakhund and Patal Pani (Mhow Ghat) where it is 1 in 40. On the Cawnpore-Achnera section, and on the Brindaban branch it is 1 in 200; and on the Rewari-Fazilka section, 1 in 169.

Contracts— As noted under Bombay, Baroda and Central India railwsy (5'6"
Main provisions of contracts— As noted under Bombay, Baroda and Central India railwsy (5'6"

Statistics of working (Those for the periods prior to 1906 will be found in Appendix 38 to the Railway Administration Report for 1907.) -

INCLUDES THE GODHRA-RUTLAM-NAGDA SECTION up to 1911 AND VIRAMGAM-WADHWAN SECTION from 1912.

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Not carnings.	Per- centage of net earnings on total capital outlay given in col- umn (3).	Interest.	Company's share of surplus profits (based on terms of contract) attributable to each year.	Gain or loss to the State pertaining to	Earn- ings per mile per week.	to
1	2	3	4	5	6	7	8	9	10	11
1906 1907 1908 1909 1910 1911 1912 1st qr. of 1918 1018-14 1914-15 1915-16	Miles, 1,915-50 1,919-20 1,918-54 1,919-72 1,919-64 1,917-73 1,815-64 1,815-64 1,815-64 1,815-64 1,821-61 1,821-61 1,821-61	Rs., 16, 65, 57, 367 16, 85, 93, 887 17, 64, 83, 727 18, 04, 84, 544 18, 16, 63, 774 18, 29, 81, 723 16, 55, 41, 245 16, 66, 23, 366 16, 73, 56, 869 17, 10, 31, 851 17, 14, 42, 885 17, 13, 91, 668 17, 05, 11, 167	Rs. 2,80,04,905 2,87,22,171 2,47,43,850 2,51,18,95 2,85,10,644 3,08,25,507 3,15,97,819 81,34,086 2,98,45,5716 2,86,44,574 3,19,96,389 3,44,52,181	1,47,43,530 1,43,93,902 94,10,603 1,08,99,636 1,44,84,804 1,50,83,603 1,61,10,247 45,29,216 1,47,44,027 432,97,462 1,68,25,911 1,90,55,200 1,91,48,143	8:35 8:54 5:33 6:04 7:96 8:27 9:73 2:72 8:78 7:77 9:81 11:12 11:25	65,99,910 53,01,963 60,67,222 61,19,498 61,72,944 63,40,819 59,67,519 14,56,507 53,64,252 57,21,867 57,08,565 55,44,460 60,74,853	Included with Bombay, Baroda and Central India railway (5'6' gauge).	Rs. +81,43,500 +90,83,939 +33,13,881 +37,79,138 +83,11,860 +87,42,784 +1,01,42,728 -90,72,709 -93,79,75 +75,75,505 +1,11,17,346 +1,35,10,740 +1,20,73,290	Rs. 281 286 249 252 286 309 335 316 303 338 362 370	47-35 49-89 61-97 56-75 49-20 51-07 49-01 44-32 50-01 58-58 47-41 44-37 45-39

Ahmedabad-Dholka railway (3' 33" gauge) --

Date of registration of the Company .- 22nd July 1901.

Progress in opening-

· ·	s	ectio	ns of	raily	7ay.	Date of opening.	Miles.	Total,						
			1				 				2	3	4	
Sabarmati to Bavla Bavla to Dholka		:	:	:	:	:	:	:	:	:	23-2-03 1-4-03	24·75 8·79	Commence of Agents of the Commence of Comm	
							 	TOTAL	L				38.54	

Details of construction-

Permanent-way. - The permanent-way consists of 411-lb. flat-footed steel rails on deodar sleepers.

Ballast .- The line is ballasted with stone.

Fencing. Only station yards are fenced.

Curves .- The sharpest curve is of 1,146 feet radius.

Gradients .- The ruling gradient is 1 in 300, except for 400 feet near Sabarmati, where it is 1 in 200 and for 4,000 feet between miles 1 and 2, where it is 1 in 286.

Contracte

Dated the 1st February 1901, between the Secretary of State and the Bombay, Baroda and Central India Railway Company, revising, and extending up to the 31st December 1905, the arrangements for the working of the Rajputana-Malwa railway and other lines.

Dated the 25th March 1902, between the Secretary of State and the Ahmedabad-Dholka Railway Company;

Dated the 18th July 1902, between the Secretary of State and the Bombay, Baroda and Contral India Railwoy Company ;

as to the construction, management, maintenance and working of the Ahmedabad-Dholka railway.

Dated the 17th September 1902, between the Secretary of State and the Ahmedabad-Dholka Railway
Company, modifying the contract of 1902, as to the issue and allotment to the Secretary of State of a certain number of fully paid up shares in the capital of the Company.

Dated the 8th April 1907, between the Secretary of State and the Bombay, Baroda and Central India Railway Company, as to the maintenance, management and working, as from the 1st January 1906, of the Bombay, Baroda and Central India railway, the Rajputana-Malwa railway and other subsidiary lines.

Dated the 10th July 1908, between the Secretary of State and) giving effect, as from the 1st July 1908, to the Bombay, Baroda and Central India Railway Company; Dated the 12th November 1908, between the Secretary of

State and the Ahmedabad-Dholka Railway Company;

the arrangement agreed upon for the improvement of the rebate from interchanged traffic payable to the Ahmedabad-Dholka Railway Company by

the Bombay, Baroda and Central India Railway Company.

Dated the 30th June 1916, between the Secretary of State, the Ahmedabad Dholka Railway Company and the Bombay Baroda and Central India Railway Company, (supplemental to the contracts of the 25th March and 18th July 1902 and 12th November 1908), as to the adoption of the Government financial year for the preparation of accounts from the 1st April 1913.

Main provisions of contracts-

(i) Land .- Provided by the Government free of cost to the Company.

The Government constructed the line (from funds supplied by the Company), and manage, work, stock and maintain it, through the agency (ii) Government aid.— (iii) Terms of working.—

company), and manage, work, stock and maintain it, through the agency of the Bombay, Baroda and Central India Railway Company. During the continuance of the working agreement with the Bombay, Baroda and Central India Railway (iv) Distribution of profits .-Company, the charge to the Ahmedabad-Dholka Railway Company for the provision of rolling-stock and the working and maintenance of the line, is the share of the general working expenses of the whole system of the 5' 6" and 3' 3\mathbb{s}" gauge lines worked by the Bombay, Baroda and Central India Railway Company which is attributable to the Ahmedabad-Dholka railway in Central India Manivay Company which is activiouslie to the Americana-Diologia railway in proportion to its gross earnings, less the amount of relate of 45 per cent of the combined shares attributable to the Bombay, Baroda and Central India milway 5 6° and 3′3§" gauge systems of the gross earnings from fraffic interchanged between those railways which the Government are entitled to retain, provided that the charge is not to exceed 44 per cent of the gross earnings in any year. In the event of the working agreement with the Bombay, Baroda and Central India any year. In the event of the working agreement with the Dominay, Darous and Central India Railway Company terminating before the contract with the Ahmedabad-Dholka Railway Company, the charge for working the latter Company's line is to be such percentage of the gross earnings as may be provided in any other working agreement that may be entered into, or, if the line be worked by State agency, such percentage as the Secretary of State may consider just or reasonable; but it is not in either case to exceed the percentage of working expenses on gross

Ahmedahad-Dholka railway (3' 3%" gauge)-contd.

Main provisions of contracts-concid.

earnings obtaining on the Bombay, Baroda and Central India railway, or 50 per cent in any year. The residue of the gross carnings, after deduction of the charge for working, etc., is payable to the Ahmedabad-Dholka Railway Company. By agreement with the Bombay, Baroda and Central India Railway Company, the Government allow to the Ahmedabad-Dholka Railway Company in respect of each year, by way of relate, a sum not exceeding 45 per cent of the combined shares attributable to the Bombay, Baroda and Central India railway 5' 6" and 3' 34" gauge systems of the gross earnings from traffic interchanged between those railways, or either of them, and the Ahmedabad-Dholka railway, as will, together with the net earnings of the Ahmedabad-Dholka Railway Company, make up an amount equal to interest for the year at the rate of 4 per cent per annum on the actual capital expenditure. The Government also allow to the Company the sum of Rs. 5,000 per annum towards its office expenses and expenses of management; but when the Company's net earnings in any year exceed 4 per cent on the capital expenditure, the excess is to be applied towards the reduction of this allowance.

- (v) Rates and fares.—To be such as may from time to time be arranged between the Government and the working agency, but it is provided that they shall be within the maximum and minimum for the time being in force on the Bombay, Baroda and Central India railway (3' 33" gange).

 The classification of goods is to be in conformity with that in force on the Bombay, Baroda and Central India railway (3' 33" gauge).
- (vi) Special obligations as to the conveyance of—
 (a) Mails, troops, high Government officials, and Government stores.—
 (b) Government bullion and coin, and the persons in charge thereof.—

As in the case of Bombay, Boroda and Central India raflway (3' 3\%" gauge).

- (vii) Power of the Government to determine contract.—The Government may, by giving 12 months' notice, determine the contract and acquire the railway on the 30th June 1922, or at the end of any subsequent period of 10 years, in which case the Government undertake to pay to the Company in rupees a sune equal to 25 times the average yearly net earnings of the Company the last preceding three years, provided that such sum shall not exceed by more than 20 per cent the total capital expenditure of the Company, nor be less than such capital expenditure.
 - (viii) Power of the Company to surrender contract .- Nil.
- (ix) Term of contract [if not determined under (vi) or (vii)] .- Not specified.

Statistics of working-

Year, Mile operat at an of each year	outlay on d (i) lines open dr and	Gross carnings.	Not earnings.	Percentage j of net envi- ings on total capital outlay given in column (3).	from the Bom- bay, Baroda and Central India railway,	Total income.	Percentage of fotal income on total expital outlay given in column(3).	Earnings per mile per week.	Proportion of expenses to earnings,
1 2	3	4	5	6	t i	8	9	10	~ n _
1903 Mile 1904 333 1905 333 1906 333 1907 333 1908 333 1909 333 1910 333 1911 333 1912 333 1914 333 1915 333 1916 333 1917 333 1918	0 10.02.172 0 10.17.308 0 10.41.905 0 10.83.722 0 11.11.330 0 10.91.212 4 11.62.386 4 11.10.987 4 11.17.717 4 11.17.717 4 11.17.413 11.17.413 11.17.413 11.17.413 11.17.413 11.17.413 11.17.413 11.17.413	R4. 64.261 99.044 98.214 1,00.743 1.15,159 1,28.206 1,20,149 1.29.669 1.32.107 1.33,740 28,368 1,24,609 1,24,409 1,29,728 1,17,160	Rs. 05,986 55,465 57,203 56,413 61,489 71,795 72,615 73,980 74,895 15,886 69,288 67,217 82,984	0:10 5:15 5:17 5:17 5:50 6:58 6:58 6:62 6:70 1:42 6:24 6:20 6:11 7:12	Rs	188, 35,986 55,465 57,203 56,448 64,489 71,795 67,283 72,615 73,960 74,895 15,886 69,789 69,789 69,288 69,288	0:59 5:15 5:47 5:21 5:60 6:56 6:02 6:50 1:12 6:24 6:24 6:20 6:01 6:01 7:92	74 69 74 76	44:00 44:00 41:76 44:00 44:00 44:00 44:00 44:00 44:00 44:00 44:00 44:00 44:00 44:00 44:00 44:00

Ahmedabad-Parantij railway (3' 3%" gauge)-

Date of registration of the Company.—6th January 1896.

Progress in opening-

	ectio	ns o	f rail	way.			Date of opening.	Miles.	Total.					
			1									 2	. 3	4
Ahmedabad to Talod												1-5-97 2-7-97	32.82	
		:		•	:	:	:		:	:	:	23-10-97 1-7-11	7·83 14·05	
Himmatungar to Khed Brahma		•	•	•	•	•	•	•	Тот		•	1-7-11	34.00	88-70

Ahmedabad-Parantij railway (3' 38" gauge)-contd.

Details of construction-

Permanent-way.-The permanent-way consists of 411-lb. flat-footed steel rails on creosoted pine and deòdar sleepers.

Ballast .- The line is ballasted with kunkur, sand and stone.

Pencing .- Only station yards are fenced.

Curves .- The sharpest curve is of 1,146 feet radius.

Gradients .- The ruling gradient is 1 in 200.

Contracts...

Dated the 13th March 1896 (called the principal contract), between the Secretary of State and the Ahmedabad-Parántij Railway Company, as to the construction of the Ahmedabad-Parántij railway.

Dated the 4th June 1896, between the Secretary of State and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working by the Company of the Ahmedabad-

Parántíj railway.

Dated the 1st February 1901, between the Secretary of State and the Bombay, Baroda and Central India Railway Company, revising, and extending up to the 31st December 1905, the !arrangements. for the working of the Rajputana-Malwa and other lines.

Dated the 29th January 1902, between the Secretary of State and the Ahmedabad-Parántij Railway Company, modifying the terms on which the Company's line is worked by the Bombay, Baroda

andCentral India Railway Company.

Dated the 8th April 1907, between the Scretary of State and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working, as from the 1st January 1908, of the Bombay, Baroda and Central India railway, the Rajputana-Malwa railway and other subsidiary lines.

Dated the 17th September 1907, between the Secretary of State and the Ahmedabad-Parantij Railway Company, for the continuance of the working of the Ahmedabad-Parantij railway on the terms

in force on the 31st December 1905.

Dated the 2nd October 1908, between the Secretary of State and the Bombay, Baroda and Central India Railway Company;

Dated the 24th November 1910, between the Secretary of State and the Ahmedabad-Parantij Railway Company;

As to the construction, management, maintenance and working of the Brahmakhed extension as part of the Ahmedabad-Parantij railway, subject to the modifications therein set forth of the terms

Dated the 30th June 1916, Letween the Secretary of State, the Ahmedabad Parantij Railway Company and the Bombay Baroda and Central India Railway Company (supplemental to the contracts of 13th March and 4th June 1896, 29th January 1902, 17th September 1907, 2nd October 1908 and 24th November 1910 as to the adoption of the Government financial year for the preparation of accounts from the 1st April 1913.

Main provisions of contracts-

- (i) Land .- Provided by the Government free of cost to the Company. The Secretary of State to use his influence to obtain the free grant of land in Native States.
- The Government constructed the line (from funds supplied by the Com-
- (ii) Government aid.—
 (iii) Terms of working.—
 (iv) Distribution of profits.—
 Bombay, Baroda and Central India Railway Company. Bombay, Baroda and Central India Railway Company. Bombay, Baroda and Central India Railway Company. Baroda and Central Central India Railway Company. Baroda and Central Central India Railway Company. India Railway Company relating to the working of State branches, the charge to the Ahmedabad-India Railway Company relating to the working of State brailenes, the charge to the Ahmedabad-Parántij Railway Company in each half-year for the provision of rolling-stock and the working and maintenance of the line is the share of the general working expenses of the whole of the 5'6" and 3'3\frac{3}{2}" gauge systems of railways worked by the Bombay, Baroda and Central India Railway Company which is attributable to the Ahmedabad-Parántij railway in proportion to its gross earnings, less the rebate of 10 per cent of the combined shares attributable to the Bombay, Baroda and Central India railway 5'6" and 3'3\frac{3}{2}" gauge systems of the gross earnings from traffic interchanged between those railways which the Government is entitled to retain, provided that the charge is not to exceed 44 per cent of the gross earnings in any year. In the event of the termination of the contracts above referred to, the charge is to be a percentage of the gross earnings not exceeding in any half-year that obtaining on the Bombay, Baroda and Central India railway, nor in any year 44 per cent. The residue of the gross earnings, after deduction of the charge for working, etc., is payable to the Ahmedabad-Parantij Railway Company.

By agreement with the Bembay, Baroda and Central India Railway Company, the Government allow to the Ahmedabad-Parantij Railway Company in respect of each year, by way of rebate, a allow to the Admedadar-ratality rankway Company in respect of each year, by way or rebase, a sum not exceeding 10 per cont of the combined shares attributable to the Bombay, Baroda and Central India railway 5'6" and 3'32" gauge systems of the gross earnings from traffic interchanged between those railways, or either of them, and the Ahmedabad-Parántij railway, as will, together with the net earnings of the Ahmedabad-Parántij Railway Company, make up an amount equal to interest for the year at the rate of 4 per cent per annum until the close of the half-year next after that in which the Brahmakhed extension is opened throughout for public traffic, and thereafter at 5 per cent per annum, on the actual capital expenditure. The Government also allow to the Company the sum of Rs. 5,000 per annum until the close of the half-year next after that in which the Brahmakhed extension is opened throughout for public traffic, and thereafter

Rs. 6,000 per annum towards its office expenses and expenses of management.

Ahmedabad-Parantij railway (3' 3%" gauge)-concld.

- Main provisions of contracts—conold.

 (y) Rates and fares.—To be such as may from time to time be arranged between the Government and the working agency, but it is provided that they shall be within the maximum and minimum rates and fares for the time being in force on the Bombay, Baroda and Central India railway (3' 3%" gauge). The classification of goods is to be in conformity with that in force on the Bombay, Baroda and Central India railway (3' 32" gauge).
 - (vi) Special obligations as to the conveyance of .-As in the case of Bom-(a) Mails, troops, high Government officials, and Government bay, Baroda and Central stores. India railway.
 - (b) Government bullion and coin, and the persons in charge thereof .-(vii) Power of the Government to determine contract. - The Government may, by giving 12 months' notice, determine the contract and acquire the railway-
 - (a) on the 31st December 1930, or at the end of any subsequent period of 10 years, in which case the Government undertake to pay to the Company in rupees a sum equal to 25 times the average yearly not earnings of the Company during the last preceding five years, provided that such sum shall not exceed by more than 20 per cent the total capital expenditure of the Company, nor be less than such capital expenditure, or
 - b) on the 31st December 1946, in which case the Government will pay to the Company in rupees an amount equal to the total capital expenditure.

 - (viii) Power of the Company to surrender contract.—Nil.
 (ix) Term of contract [if not determined under (vi) or (vii)].—Not specified.

Statistics of working-

Year	. !	Mileage open at end of each year.	Total capital outlay, including sus- pense, to end of cach year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross ea r nings.	Net carnings.	Parcentage of not carnings on total capital out- lay given in column (3).	Rebate from the Bombay, Baroda and Central India railway.	Total income.	Percentage of total income on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1		2	3	4	5	6	7	8	9	10	11
		Milos.	Rs.	R4.	R	4	Re.	Rs.		Rs.	
1897		54.20	19,42,211	69,069	36,665	1.89		36,665	1.89	46	46.92
189 8		54.59	19.42.97	1,19,790	85,836	412		85,836	4:43	53	12.70
1899		54.70	19,49,616	2,10,634	1,21,687	6.21		1,21,687	6.54	74	42.23
1900		54.70	19,55,305	2,65,105	1,55,952	7.98	***	1,55,952	7.98	93	41.17
1901		54.70	19,49,355	1,77,438	99,365	5.10		99,365	5110	62	44.00
1902		54.70	19,70,012	1,79,794	1,00,685	5.11		1,00,685	5.11	63	44.00
1903		54.70	19,88,869	1,50,112	84,063	4.23		84,063	4.28	53	44.00
1904		54.70	19.89.045	1,86,227	1.04.287	5.24		1,04,287	5°24		44.00
1905		54.70	19,91,753	1,98,713	1,15,169	5'80		1,15,469	5.80	70	41.89
1906	. ;	54.70	19,98,023	2,20,934	1.23,727	6.19		1,23,727	6.19	78	44.00
1907		54.40	20.08,966	2.61.637	1,48,197	7:38		1,48,197	7:38	93	44.00
1908	. 1		20,26,012	2,95,664	1,65,572	8.17	***	1.65,572	8.17	104	44.00
1909	. :	54.70	20.32.797	3,04.584	1,70,735	8.40		1.70,735	8.40	107	44 00
1910		54.70	28,71,739	3,21,710	1,80,158	6 27	•••	1,80,158	6.52	113	44.00
1911	. !	88:70	36.40.022	3,53,475	1.97,386	5.12		1,97,186	5.42	94	44.00
1912		88.70	38,61,696	3,47,122	1,94,388	5 30		1,94,388	5.30	75	44.00
1st gr.	•		1								
of 1913		88.70	36,83,679	1,03,125	57,018	1.22	•••	57.918	1.57	90	44.00
1913-14		88.70	37,08,874	4,02,382	2,25,334	6.08		2,25,331	6.08	87	44.00
1914-15		88.70	37,18,868	4,25,995	2,33,557	6.15	***	2,38,557	6.42	92	44.00
1915-16		88·7J	37,18,830	3,84,630	2,15,393	5.79	***	2,15,393	5.79	(-0.)	44.00
1916-17		88.70	37,23,823	3,37,371	1,93,543	, 2.50		1.93,542	5.20	73	42 63
1917-18		88.70	87,23,327	3,59,845	2.01,513	5.41		2,01,513	5.11	78	44.00

Gaekwar's Mehsana railway (3' 33" gauge)-

	Section of railway.														Grand total.
				1								2	3	4	5
Viramgam-Mehsana Taranga	Hill	sect i	on-									1			
Viramgam to Mehsana												1-2-91	40.21		1
Mehsana to Vadnagar												21-3-87	30.73		1
Vadnagar to Kheralu												12-12-88	7.00	!	
Kherálu to Taranga Hill										•		20-8-09	7:79		1
** * · · · · · · · · · · · · · · · · ·												1 1		75.73	
Kakosi extension -												20-7-91	24.69		1
Mehsana to Patan .	٠	•	•	•		•	•	•	•	•	•	15-1-15	14.72		1
Patan to Wagrod .	•	•	•	•	•	•	•	•	•	•	•	28 5-16	9.91		l l
Wagrod to Kakosi .	•	•	•	•	•	•		•	•	•	•	20.0-10	9 01	49 32	1
Harij branch-	*											23-10-08	20.95	40 02	į.
Manund Road to Harij	•	•	• •	•	•	•	•		•	•	•	20-10-00	20 03	20.95	1
Bechraji extension-												23-10-08	16.68	16.63	1
Chanasma to Bechraji	•	•	•	•	•	•	•	•	•	•	. •	29-10-00	10.09	10.09	_1
				1	OTAL	OPE	N M	ILEA	G E						162-63
UNDER CONSTRUCTION OR SA	N CVP	TOWE	n #0	v .co	MATE	пет	N-								1
Khalipur to Khakhal (san	etion	nad c	n 15t	h M	rch l	9(2)						ا ا	17:22		1
Wagrod to Khareda (sane	tione	vl on	14th	Jan	narv	1913)	•	- :	•	•	•	:::	12:44	29.66	29.66
Water to It has can then	0.0	, , , , , , , , , , , , , , , , , , ,				,		•	•	•					
							C)		***			1		1	100 00

BOMBAY, BARODA AND CENTRAL INDIA RAILWAY SYSTEM-coxid.

Gaekwar's Mehsana railway (3' 3%") gauge-contd.

Details of construction-

Permanent-way .- Except from mile 10 to mile 24.69 of the Mehsana-Patan section, which is laid with 40-lb. iron rails on deodar sleepers, the line is laid with 414-lb. flat-footed steel rails on steel, deodar, half round jungle teak and Australian hard wood sleepers.

Ballast.-The line between Mehsana and Taranga Hill is ballasted with stone, between Manuad Road and Harij and between Chanasma and Bechraji, with lime stone and the rest with kunkur.

Fencing .- Of the Manuad Road-Harij and Chanasma-Bechraji sections only the station yards are fenced; and of the other three sections 411 miles are fenced by wire, and the rest with cactus, but this latter has in several places been entirely destroyed by floods and locusts and what remains is much broken up. On the Patan-Kakosi section offy the station yards are fenced.

Curves.—The sharpest curve is of 1,910 feet radius.

Gradients .- On the Mehsana-Kheralu section the ruling gradient is 1 in 150, except for 5,100 feet, between Varetha and Taranga Hill, where it is 1 in 75. On the Mehsana-Viramgam section it is 1 in 400, except for 1,350 feet between miles 5 and 6 where it is 1 in 200 and 900 feet between miles 12 and 13 where it is 1 in 300. On the Mehsana-Patan section it is 1 in 400, except for 850 feet between miles 6 and 7 where it is 1 in 200. On the Patan-Wagrod section it is 1 in 150, on the Manuad Road-Harij section, 1 in 200 and on the Chanasma-Bechraji section, 1 in 366, all in banking section.

Agreements and contract-

Agreement, dated the 17th June 1893 (called "the Mehsana Working Agreement"), between the Government of His Highness the Maharaja Gaekwar of Baroda and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working by the Company of the Gackwar's Mehsana railway

Contract, dated the 8th April 1907 (called the principal contract), between the Secretary of State and the Bombay, Baroda and Control India Railway Company, as to the maintenance, management and working, as from the 1st January 1906, of the Bombay, Baroda and Central India railway, the Rapputana-Malwa railway and other subsidiary lines.

Agreement, dated the 20th July 1908, between the Government of His Highness the Maharoja Gaekwar of Baroda and the Bombay, Baroda and Central India Railway Company, as to the construction by the Company of the Gackwar's Kherálu-Dabhora railway.

Agreement, dated the 20th July 1908, between the Government of His Highness the Maharaja Guekwar of Baroda and the Bombay, Baroda and Central India Railway Company, as to the construction by the Company of the Gaekwar's Manund Road-Harij and Chanasma-Bechraji railways.

Agreement, dated the 16th February 1909, between the Government of His Highness the Maharaja Guckwar of Baroda and the Bombin, Baroda and Central India Railway Company, modifying, as from the 27th March 1908 to the 26th March 1909, inclusive, the Mchsana Working Agreement of the 17th June 1893,

Agreement, dated the 15th December 1909, between the Government of His Highness the Maharaja Gaekwar of Baroda and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working of the Manund Road-Harij and Chanasma-Bechraji lines

from the date of opening to public traffic up to and including the 22nd October 1910.

Agreement, dated the 16th May 1910, between the Government of lits Highness the Maharaja Gackwar of Bareda and the Bombay, Baroda and Central India Railway Company, for the continuance of the management, maintenance and working, from the 27th March 1909, of the Mehsana-Kheralu, Mehsana-Viramgam and Mehsana-Patan railways, subject to further modifications of the Mehsana Working Agreement of the 17th June 1893.

Agreement, dated the 17th May 1910, between the Government of His Highness the Maharaja Gackwar of Baroda and the Bombay, Baroda and Central India Restway Company, as to the management, maintenance and working of the Kherálu-Varetha (Taranga Hill) extension, subject to further modifications of the Mehsana Working Agreement of the 17th June 1893.

Agreement, dated the 3rd December 1910, between the Government of His Highness the Maharaja Guedwar of Barola and the Bombry, Barola and Central India Railway Company, as to the maintenance and working of the Manund Road-Harij and Chanasma-Bechraji lines as from the 23rd October 1910, subject to further modifications of the Mehsana Working Agreement of the 17th June 1893.

Agreement dated the 30th October 1915, between the Government of His Highness the Maharaja Gackwar of Basoda and the Bembay, Baroda and Central India Kailway Company, as to the management, maintenance and working of the Patan Wagrod and Wagrod-Kakosi extensions from the respective dates of their opening for public traffic, subject to further modifications of the "Mchsana Working Agr-count? of the 17th June 1893 and the supplemental agreement of 16th May 1910.

Main provisions of agreements and contract-

(i) Land .- As under Petlad-Cambay railway (Anand-Tarapur section) (5' 6" gauge.)

(ii) Giverament aid.—The lines are the property of the Baroda Durbar (which provides all funds chargeable to the capital account), and are managed, maintained, stocked and worked by the Bombay,

Barola and Central India Railway Company as part of the Company's railway system.

(iii) Terms of working.

Excepting the cost of making good damages due to extraordinary (iv) Distribution of profits.

capital, and the charges for repairs or renewals of way, works and stations on the Patan-Wagrod and Wagrod-Kakosi extensions, due to defective design or defective construction of the said extensions or any portion of the same or to defective meterial used in the works constructed,

BOMBAY, BARODA AND CENTRAL INDIA RAILWAY SYSTEM -- confd.

Gackwar's Mehsana railway (3' 3%" gauge)-concld.

Main provisions of agreements and contract-concld.

which are to be paid for by the Durbar, the Mehsana railway and the Manund Road-Harij and Chanasma-Beehraji railways and the Patan-Wagrod and Wagrod-Kakosi extensions are debited for maintenance and working expenses, including the cost of supervision and hire of rolling-stock, with the same percentage of gross earnings as may be incurred in the half-year on the 5.6" and 3' 3\mathbb{3}" gauge lines of the Bombay, Baroda and Central India railway system, and also with any single item of capital expenditure on "New minor works" costing Rs. 2,000 or less, subject to a maximum charge on such account of an amount bearing the same percentage of gross

receipts as obtains for similar expenditure on the Bombay, Baroda and Central India railway. The balance in favour of or against the Baroda Durbar is paid over to, or by it, as the case may be. (v) Rates and fares .- To be fixed from time to time by the Company with the approval of the Durbar; but in the absence of any special agreement between them, they are, as far as may be, to conform to those generally in force on the Bombay, Baroda and Central India railway (3' 33" gauge).

(vi) Special obligations as to the conveyance of-

- (a) Mails, troops, high Government officials and Government stores .-(b) Government bullion and coin, and the persons in charge thereof .-
- (vii) Power of the Durbar to determine agreement,-
- (viii) Power of the Company to determine agreement.—
 (ix) Term of agreement [if not determined under (vii)] and (viii)].—

under Petlad Cambay railway (Anand-Tarapur section-5' gauge).

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

	Year.		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross e trnings.	Net cornings.	Percentage of net earnings on total capital entiry given in column (3).	flarnings per mile per wook.	Proportion of exponses to carnings.
	1		2	3	1	5	6	7	8
1908 1909 1910	: :	:	Miles. 130°21 138°01 138°00	Rs. 52,16,404 53,43,871 55,89,610	Ra. 4,55,749 5,57,732 6,30,415	Rs. 1,98,036 2,56,206 3,13,759	3·70 4·79 5·61	Rs. 88 78 88	57:64 54:06 50:25
1911 1912 Lst qr. 1913-14 1914-15		:	138:00 138:00 138:00 138:00 152:72	57,02,244 57,16,157 57,23,067 57,80,979 66,46,657	6,46,429 6,61,472 1,58,077 6,58,961 7,07,195	3,20,799 3,36,647 86,374 3,80,495 3,37,010	5:63 5:89 1:51 5:72 5: 0 7	90 92 88 92 96	50°37 49°11 45°36 49°85 52°35
1915-16 1916-17 1917-18			152·72 162·63 162·63	64,67,495 68,97,803 69,03,986	7,14,241 7,35,224 8,30,887	3,72,108 4,21,341 4,64,141	5:75 6:11 6:72	90 88 98	17:90 42:69 41:14

Jaipur State railway (3' 3%" gauge) -

Progress in opening-

S	etion	of ra	ilwa	у.					Date of opening.	7∭1 0 a∵	Total	Grand total
	_		1						2	3	4	5
Main line- Sánganor to Nawai Nawai to Siwai-Mádhopu	· .	:	·	:	:	·:	<i>:</i>	:	10-11-05 17-10-07	32:13 10:66	72.84	
Reengus extension— Jaipur to Beengus .				•					19-12-16	85-20	35:20	
Under construction or					MILEA		on-	•			108-04	1
Reengus to Sikar (sanctis Sikar to Jhunjhun (sanct	med o	n 5th	Octo	ber	1914)				:::	10.97 39.85	70.82	1
					р тот	Δī		.1				1 78⋅86

Details of construction-

Permanent-way .- The permanent-way consists of 411-lb. flat-footed steel rails laid on deodar sleepers on the main line and of 414-lb. British section rails on deadar and sal sleepers on the Reengus extension.

Ballast. - The line is ballasted with stone.

Fencing. - The line is unfenced except at stations and at points where the line crosses the main road.

Curves .- The sharpest curve is of 1,910 feet radius.

Gradients.-The ruling gradient is 1 in 250, except for 4 miles and 1,080 feet at the beginning of the line and on the Reengus extension, where it is 1 in 200.

BOMBAY, BARODA AND CENTRAL INDIA RAILWAY SYSTEM-contd.

Jaipur State railway (3' 31" gauge) -contd.

Agreement-

Agreement, dated the 11th September 1906, between the Jaipur Durbar and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working by the Company of the Jaipur State railway.

Railway Board's letter No. 1310 R.T., dated the 30th October 1907, as to the payment of rebate to the Jajour Durbar.

Main provisions of agreement-

- (i) Land .- Provided by the Jaipur Durbar at the cost of capital.
- (ii) Government aid.—The line is the property of the Jaipur Durbar (which provides all funds chargeable to the capital account), and is managed, maintained, stocked and worked by the Company as part of its railway system. By way of rebate the Government allow out of their share of the net earnings of the Bombay, Baroda and Central India railway (3' 3\section gauge) (outside the contract between the Secretary of State and the Bombay, Baroda and Central India Railway Company), a sum up to 10 per cent of the net earnings of the main line from traffic interchanged with the Jaipur State railway to such extent as is necessary to make up, together with the net earnings of the Jaipur railway, an amount sufficient to give a return of 3\frac{1}{2} per cent per annum on the capital expenditure incurred.
- (iii) Terms of working.— Excluding the cost of making good damages due to extraordinary casualty which is borne by the Durbar and is chargeable against
- (iv) Distribution of profits.—

 capital, the Jaipur State railway is debited for maintenance and working expenses, including the cost of supervision and use of ralling-stock, with the same percentage of the gross carnings of the Jaipur State railway as the total expenditure incurred on the entire Bombay, Baroda and Central Incia railway system bears to the cornings of that system, and also with any single item of capital expenditure not exceeding Rs. 2,000, subject to a maximum charge on such account of an amount bearing the same percentage of gross receipts as obtains for similar expenditure on that system. The balance in favour of or against the Jaipur Durbar is paid over to, orlby it, as the case may be.
- (v) Rates and fares.—To be fixed from time to time by the Company with the approval of the Jaipur Durbar and, in the absence of any special agreement between them, to conform, as far as may be, to those generally in force on the Bombay, Baroda and Central India railway (3' 32" gauge).
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, high Government officials and Government stores, —Mails and postal officers on duty to be carried at the rates and on the conditions in force from time to time on State railways in British India. (There is no provision for the carriage at special rates of troops, high Government officials and Government stores.)
 - (b) Government bullion and coin, and the persons in charge thereof. Not specified.
- i(vii) Power of the Durbar to determine agreement.—
 (viii) Power of the Company to determine agreement.—

 party giving to the other 12 calendar months' notice expiring on the 30th September or 31st

 March of any year.
- (ix) Term of agreement [if not determined under (vii) and (viii)] .- None specified,

Statistics of working (Those for the periods prior to 1908 will be found in Ap, endix 38 to the Railway Administration Report for 1907.)—

,	Υœ	ar.		·	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross carnings,	Net earnings.	Percentage of not enrings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
		1_		- 1	2	8	4	5	6	7	8
1908 1909 1910	:			•	Miles. 72:84 72:84 72:84	Rs. 24,01,041 24,02,410 24,03,971	Rs. 1,16,415 1,44,902 2,14,761	Rs. 49,648 68,880 1 10,290	2·67 2·86 4·59	31 98 57	57 :35 52: 51 48:65
1911 1912 1st qr. c 1913-14 1914-15	of i	918		•	72:84 72:84 72:84 72:84 72:84	24,09,763 24,09,768 24,12,332 24,74,728 36,40,371	2,70,084 3,13,550 96,283 3,12,429 2,94,080	1,33,743 1,58,641 52,137 1,57,262 1,40,235	5:55 6:58 2:16 6:35 3:85	71 83 102 82 78	50'48' 49'46' 45'82' 49'66' 52'31
1915-16 1916-17 1917-18	:		•		72·84 107·22 108·04	45,76,524 51,70,743 54,07,542	8,94,842 4,46,928 8,82,038	2,09,788 2,54,947 2,13,839	4.58 4.93 3.95	104 .104 68	46·87 42·96 44·03

BOMBAY, BARODA AND CENTRAL INDIA RAILWAY SYSTEM -contd.

Pálanpur-Deesa railway (3' 3\ gauge) -

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
1	2	3	4
Pálanpur to Docsa	8-11-93	. 17.28	17:28

Details of construction-

Permanent-way.—The permanent-way consists of #11-th. flat-footed steel rails, 2.75 miles of which are laid on east iron plate sleepers and the rest on wooden sleepers of various kinds.

Ballast. - The line is ballasted with stone and sand.

Fencing .- The line is fenced throughout.

Curves .- The sharpest curve is of 1,910 feet radius.

Gradients.-The ruling gradient is 1 in 150.

Contracts-

Letter from the Government of India, Public Works Department, No. 352 R.C., dated the 25th March 1892, to the Government of Bombay;

Letter from the Under Secretary of State for India, No. 682, dated the 18th May 1892, to the Board of Directors, Bombay, Baroda and Central India Railway Company;

Letter from the Board of Directors, Bombay, Baroda and Central India Railway Company, No. 611, dated the 20th May 1892, to the Under Secretary of State for India:

Letter from the Under Secretary of State for India, No. 920, dated the 22nd June 1892, to the Board of Directors, Bombay, Baroda and Central India Railway

Letter from the Government of Bombay, No. 1643, dated the 19th August 1892, to the Government of India, Public Works Department;

As to the construction, management, maintenance and working, by the Bombay, Baroda and Central India Railway Company, of the Palanpur-Deesa railway as a part of the Rajputana-Malwa railway.

- Contract, dated the 1st February 1901, between the Secretary of State and the Bombay, Baroda and Central India Roilway Company, toxising, and extending up to the 31st December 1905, the arrangements for the working of the Rajputuna-Malwa and other lines.
- Contract, dated the 8th April 1907, between the Secretary of State and the Bombry, Buroda and Central India Railway Company, as to the management, maintenance and working as from the 1st January 1906, of the Bombay, Barsda and Central India railway, the Rajputana-Malwa railway and other subsidiary lines.

Main provisions of contracts-

- (i) Land.—Provided free of cost by the Palanpur Durbar.
- (ii) Government aid.—The railway is owned jointly by the Government and the Pálanpur Durbar, and the former provide any further open line capital funds. It was constructed and is managed, maintained, stocked and worked by the Bombay, Baroda and Central India Railway Company as part of the Bombay, Baroda and Central India railway (3' 34" gauge).
- (iii) Terms of working.—The railway is debited with a share of the general working expenses of the Bombay, Baroda and Central India Railway Company's system in proportion to the gross earnings of the Pálanpur-Deesa railway.
- (iv) Distribution of profits.—The net earnings, after deducting the working expenses as in (iii) above, in any half-year, are to be divided between the Government and the Pálanpur Durbar in proportion to the capital provided by each, after excluding (so long as the line remains a 3' 3\frac{3}{3}" gauge one) from the Government capital the sum of Rs. 25,117 the extra expenditure incurred in providing a 5' 8" gauge sub-structure.
- (v) Rates and fares.—
 (vi) Special obligations as to the conveyance of.—

 (a) Mails, troops, high Government officials and Government stores.—
 (b) Government bullion and coin, and the persons in charge thereof.—

 As under Bombsy,
 Baroda and Central
 India railway (3'
 3\frac{2}{3}'' gauge).
- (vii) Power of the Government to determine contract.—
 (viii) Power of the Company to determine contract.—

 The agreement is co-terminous with the Secretary Company's contract with the Secretary
- (viii) Power of the Company to determine contract.—

 Sompany's contract with the Secretary of State for working the Bombay,
 Baroda and Central India railway (3' 3% gauge), unless it be decided to extend the railway in which case it will be open to the Government to terminate the working arrangement on giving the Company 6 months' notice.

BOMBAY, BARODA AND CENTRAL INDIA RAILWAY SYSTEM-contd.

Pálanpur-Deesa railway (3' 5%" gauge)-concld.

Statistics of working-

Year.	Mileage open at end of each year.	outle	neluding s, to end coar, i.e., ay on ppen, and partly ly under	Gross earnings.	Net ea	rnings.	carning capital given in	ge of met s on total outlay columns ad (4).	Interest on Govern- ment capital.	Gain or loss to Govern- ment pertaining to each	Earn- ings per mile	Proportion of expenses to earnings.
	•	Contribu- ted by the Pálanpur Durbar.	ted by		Attribu- table to the Durbar.	Attribu- table to Govern- ment.	On capital contribu- ted by the Durbar.	on ca- pital con- tributed by Gov- ernment.		year.	week.	
1	2	3	4	5	6	7	8	9	10	11	12	13
1898 1894 1895	Miles. 17:28 17:28 17:28	Rs. 1,85,000 1,85,000 1,85,000	Rs. 1,78,953 2,14,601 2,15,374	Rs. 4,436 37,544 38,182	Rs. 1,335 11,365 11,333	Rs. 1,110 11,781 11,512	0·72 6·14 6·13	0:62 5:49 5:35	Rs. 5,371 8,783 8,378	Rs. -4,261 +2,998 +3,134	Rs. 33 42 42	41·88 38·35 40·17
1896 1897 1898 1899 1900	17:28 17:28 17:28 17:28 17:28	1,85,000 1,85,000 1,85,000 1,85,000 1,85,000	2,32,746 2,83,264 2,33,264 2,33,264 2,33,264	51,629 43,264 38,199 41,628 47,669	14,101 10,883 10,834 12,102 12,686	15,072 12,243 11,628 13,618 14,218	7:62 5:88 5:59 6:54 6:83	6·48 5·25 4·99 5·84 6·10	9,149 9,305 9,331 9,330 9,330	+5,923 +2,938 +2,297 +1,288 +4,888	57 48 43 50 53	48·49 46·55 42·51 42·87 43·67
1901 1902 1903 1904 1905	17 28 17 28 17 28 17 28 17 28	1,85,000 1,85,000 1,85,000 1,85,000 1,85,000	2,33,264 2,36,786 2,87,069 2,37,069 2,37,069	36,805 33,690 29,734 29,185 35,178	9,375 8,329 7,141 7,280 9,469	10,548 9,521 8,181 8,340 10,848	5:07 4:50 3:86 3:94 5:12	4·52 4·02 3·45 3·52 4·58	9,330 9,408 9,432 9,474 9,472	+1,218 +113 -1,251 -1,134 +1,376	41 37 33 32 39	45.87 47.01 48.47 46.48 42.25
1906 1907 1908 1909 1910	17:28 17:28 17:28 17:28 17:28	1,85,000 1,85,000 1,85,000 1,85,000 1,85,000	2.39,155 2,39,155 2,47,156 2,45,700 2,45,700	58,328	9,862 10,266 9,097 11,757 13,663	11,876 11,878 10,728 14,034 6,291	5:88 5:55 4:92 6:36 7:89	5.71	8,213 8,259	+ 1,845 + 4,655 + 2,515 + 5,775 + 8,075	45 47 51 59 65	47:11 47:35 86:60 51:63 48:44
1911 1912	17:28 17:28	1,85,000 1.85,000	2.45,700 2,45,700		11,949 11,891	14.248 14,177	6:46 6:43	5.80 5. 77	8,332 8, 4 00	+ 5,916 + 5,777	59 58	50·36 49·71
1st qr of 191 1913-1 1914-1 1915-1 1916-1 1917-1	8 17 28 4 7 28 5 17 28 6 17 28 7 17 28	1,85,000 1,85,000 1,85,000 1,85,000	2,45,700 2,45,700 2,45,700 2,45,700 2,45,700 2,45,700	57,919 61,408 66,539 56,069	8,677 18,258 13,328 15,897 14,632 15,009	4,384 15,808 15,892 18,955 17,445 17,896	7 1:99 7:17 7:20 8:59 7:91 8:11	1.78 6.43 6.47 7.71 7.10 7.28	2,089 8,324 8,598 8,532 8,099 8,533	+ 2,295 + 7,484 + 7,294 + 10,423 + 9,846 + 9,363	66 64 68 74 69 65	45·58 49·84 52·42 47·62 42·79 44·06

Vijapur-Kálol-Kadi railway (3' 3%" gauge)-

Progress in opening-

	Se	etion	в of 1	ailw	y.						Date of opening.	Miles.	Total.	Grand Total
				1		*					2	3	4	8
Vijapur to Kálol		-			•						10-6-02 12-7-03	29·44 11·93		
Kálol to Kadi Kadi to Bhoyani Road	:	:	:	:	:	÷	:	÷	:	:	1-4-12	4.74		1
				Тот	4 I. O	PEN I	MILE	VGE		•			16.11	
Under construction of Bhoyani Road to Beck	or sa iraji (ncti sanct	ONEI	FOR lon 5	con	stri Lugue	t 191	N 6)			·	21.30		
•											-		21:30	67:41

Details of construction-

Permanent-way.—21 miles are laid with 411-lb. flat-footed steel rails and 25 miles with 40-lb. flat-footed iron rails on deodar sleepers.

Ballast .- The line is ballasted with stone and kunker.

Fencing.-Only station yards and 11:07 miles of the Vijapur-Kálol section are fenced.

Curves.—The radius of the sharpest curve is 3,820 feet on the Vijapur-Kadi section and 1,910 feet on the Kadi-Bhoyani Road section.

Gradients.—The ruling gradient is 1 in 150 between Vijapur and Kadi and 1 in 200 between Kadi and Bhoyani Road.

BOMBAY, BARODA AND CENTRAL INDIA RAILWAY SYSTEM - contd.

Vijapur-Kalol-Kadi railway (3' 3f" gauge)-concld.

Agreements and contract-

Agreement, duted the 23rd November 1903, between the Government of His Highness the Maharaja Gaekwar of Baroda and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working, by the Bombay, Baroda and Central India Railway Company, of the Vijapur-Kalol-Kadi railway.

Contract, dated the 8th April 1907 (called the principal contract), between the Secretary of State and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working, as from the 1st January 1906, of the Bombay, Baroda and Central India railway, the Baintenan Mahay railway and other subsidiary line.

Rajputana-Malwa railway and other subsidiary lines.

Agreement, dated the 3rd March 1909, between the Government of His Highness the Maharaja Gaekwar of Baroda and the Bombay, Baroda and Central India Railway Company, modifying as from the 1st July 1908 to the 30th June 1909, inclusive, the agreement of the 23rd November 1903.

Agreement, dated the 16th May 1910, between the Government of His Highness the Maharaja Gaskwar of Baroda and the Bomlay, Baroda and Central India Railway Company, for the continuance of the management, maintenance and working, from the 1st July 1909, of the Vijapur-Kálol-Kadi railway, subject to further modifications of the agreement of the 23rd November 1903.

Agreement, dated the 17th June 1913, between the Government of His Highness the Maharaja Gackwar of Baroda and the Bombay, Baroda and Central India Ruilway Company, as to the management, maintenance and working of the Kadi-Bhoyani extension, subject to further modifications of the agreement of the 23rd November 1903.

Main provisions of agreements and contract-

As noted under Gaekwar's Mehsana railway (3' 3\cdot gauge), with the exception that charges for repairs or renewals of way, works and stations on the Kadi-Bhoyani extension, due to defective design or construction of the extension or to defective materials used in the works constructed, are to be paid for by the Durbar.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway
Administration Report for 1907.)—

	Yes	r.		Mileage open at end of each year.	Total capital contlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Not carnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of exponses to earnings.
	1			2	3	4	5	6	7	8
-										
				Miles.	Rs.	Rs.	R4.		Rs.	1
1908 1909 1910	;	:	:	41.97 41.97 41.97	13,12,860 13,08,338 13,29,176	1,20,643 1,17,211 1,32,202	51,999 56,498 68,019	3:96 4:32 \$ 5:12	56 54 61	56:90 51:80 48:55
1911 1912 1st qr. 1913-14 1914-15	٠.	13		41:37 46:11 46:11 46:11 46:11	15,14,964 15,63,509 15,61,365 15,71,787 16,02,858	1,35,891 1,34,917 34,840 1,45,014 1,63,126	67,582 68,346 18,981 72,768 77,712	4:46 4:37 1:22 4:63 4:85	63 58 58 60 66	50°27 49°35 45°32 49°62 52°36
1915 16 1916-17 1917-18		:		46:11 46:11 (46:11	16,31,527 18,92,634 21,06,018	1,63,298 1,56,316 1,51,600	85,045 89,389 84,762	5·21 4·73 4·03	6 8 65 63	47 ·9 0 42·85 44·09

Bilimora-Kalamba railway (2' 6" gauge)-

Progress in opening-

	Sectio	ns of railwa	ıy.		:	Date of opening.	Miles.	Total.	Grand total.
		1				2	3	4	5
Bilimora to Rankuwa						28-7-14	13.42		
Rankuwa to Unsai		•••				22-1-15	12.83		
Unai to Kalamba			OTAL OPEN			1-5-17	8.69		
INDER CONSTRUCTION OR	SANCT	IONED FOR	CONSTRUC	TION-	- 1	1		34 '93	1
Mahuva to Anaval (san	etione	don 11th M	ay 1914)				17:91	17:91	
			GRAI	ND TOTAL	= (أ	·	5\$-84

BOMBAY, BARODA AND CENTRAL INDIA RAILWAY SYSTEM -contd.

Bilimora-Kalamba railway (2" 6' gauge)-concld.

Details of construction-

Permanent-way.—The permanent way consists of 30-lb, flat-footed steel rails on sal sleepers. Ballast .- The line is ballasted with sand and moorum.

Fencing.—The line is unfenced.
Curves.—The sharpest curve is of 1,442 feet radius.

Gradients.-The ruling gradient is 1 in 150, and 1 in 700 between Unai and Kalamba.

Agreement-

Dated the 23rd October 1914, between the Government of Ris Highness the Maharaja Gaekwar of Baroda and the Bombay, Baroda and Central India Riilway Company, as to the management, maintenance and working of the Bilimora-Kalamba railway.

Main provisions of agreement-

- (i) Land .-As noted under Petlad-Cambay railway (Anand-Tarapur section) (5'6" (ii) Government aid .gauge). The Company works the Bilimora-Kalamba railway at actual cost, (iii) Terms of working. plus a sum equal to 10 per cent of the total working expenses, but not less than Rs. 300 per mensem in the half-year for superin-(iv) Distribution of profits.—) but not less than Rs. 300 per mensem in the half-year for superintendence. The railway is also debited with a contribution from its net earnings to the Company's Provident Fund calculated on the same basis as obtains on the Bombay, Baroda and Central India railway. The balance in favour of or against the Baroda Durbar is paid over to or by it, as the case may be. (v) Rates and fares.—
 (vi) Special obligations as to the conveyance of.— (a) Mails, troops, high Government As noted under Petlad Cambay railway (Anandofficials and Government stores .-Tarapur section) (5' 6" gauge). (b) Government bullion and coin and the persons in charge thereof.—
 (vii) Power of the Durbar to determine agreement. (vii) Power of the Durbur to determine agreement.—

 The agreement may be terminated at any (viii) Power of the Company to determine agreement.—
- to expire on the 30th September or 31st March in any year. (ix) Term of agreement [if not determined under (vii) and (viii)] .- Not specified.

Statistics of working-

Year.	openat	Total capital ontlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under con- struction,	Gross earnings.	Not earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of oxpenses to earnings.
1	2	3	4	5	6	7	8
1914-15 1916-16, 1916-17 1917-18	Miles. 26-32 26-32 26-24 34-93	Rs. 13,43,378 14,15,786 14,96,964 15,53,071	Rs. 19,048 45,840 57,805 61,489	Rs. 5,974 3,164 15,913 6,277	0°44 0°22 1°06 0°40	Rs. 32 33 42 34	69'59 93'10 72'47 89'79

Bodeli-Chhota Udaipur railway (2' 6" gauge)-

Sanction to the construction of this line by the agency of the Bombay, Baroda and Central India Railway Company, on behalf of the Baroda and Chhota Udaipur Durbars, was conveyed in Railway Department (Railway Board) Notification No. 25, dated the 2nd February 1915.

Progress in opening-

	Section of	of ra	ilwa	у.		•				Date of opening.	Miles.	Total.
	-	1				 				 2	8	4
Bodeli to Chhota Udaipur .	•		•	•	•	•	•	•	•	1-12-17	22.56	22.56

BOMBAY, BARODA AND CENTRAL INDIA RAILWAY SYSTEM -contd.

Bodeli-Chhota Udaipur railway (2'6' gauge)-concld.

Details of construction-

Permanent-way.—The permanent way consists of 411 lb. flat-footed rails laid on wooden sleepers. Ballast .- The line is ballasted with sand.

Fencing.—The line is fenced at important level crossings only.

Curves.—The sharpest curve is of 819 feet radius.

Gradients.—The ruling gradient is flatter than 1 in 1,000 including level. Agreement-

The line has been constructed by the Bombay, Baroda and Central India Railway Company on behalf of the Baroda and Chhota Udaipur Durbars. It is being maintained and worked as an extension of the Gaekwar's Dabhoi railway under the terms and conditions which apply to that railway, subject to certain modifications which are under consideration.

Statistics of working-

Year.	Mileago open at end of the year.	including sui of the year, a (i) lines ope (ii) lines par under	construction.	Gross earnings,	Net ear Attributable to the Baroda Durbar.	Attribut-	net ea on i capital give colur	on in (3), On capital contributed by the Chhota	Earnings por mile por week	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10	11
1917-18.	Miles. 22.56	Rs. 5,05,630	Rs. 5,05,630	Rs 18,856	Re. 6,576	Rs. 1,832	1.30	0.36	Rs. 48	55:41

Broach-Jambusar railway (2' 6" gauge)-

Progress in opening-

	Se	etion of re	ilway.			Date of opening.	Miles.	Total.
		1				2	3	4
Brosch to Jambusar	•••		***	 ***	***	23-11-11	29-69	29-69

Details of construction-

Permanent way-The line is laid with second-hand 411-lbs. flat-footed steel rails, partly on sall and partly on half-round jungle wood sleepers.

Ballast .- The line is being ballasted with sand.

Fencing .- The line is unfenced.

Curves.—The sharpest curve is of 603'S feet radius. Gradients.—The ruling gradient is 1 in 200.

Contracts— This line is a branch of the Bombay, Baroda and Central India railway and is worked under the contracts noted under Bombay, Baroda and Central India railway (5' 6" gauge).

Statistics of working .-

	Year.		Milbage open at end of each year,	Total capital outlay including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	(rross earnings.	Net earnings.	Percentage of net carnings on total capital outlay given in column (3).	Interest.	Oain or loss to the State pertaining to each year.	Farnings	Proportion of expenses to earnings.
.,	1	, .	2	3	4	5	. 6	7	В	9	10
1914-15			Miles. 29 78	Rs. 13,28,661	Rs. 21,756	Rs. 11,069	0.88	41,525	-80,458	Rs. 40	49-12
1915-16 1916-17 1917-18	 	::: :::	29·78 29·69 2J·69	13,95,238 14,10,287 14,17,183	83,433 89, 0 88 1,40,739	43,282 41,632 78,180	2.95 5.52	47,294 46,241 (49,099	-4,012 -4,609 +29,031	54 58 91	48·12 53·27 44·45

BOMBAY BARODA AND CENTRAL INDIA RAILWAY SYSTEM -contd.

Gaekwar's Dabhoi railway (2' 6" gauge) ---

Progress in opening-

	Sect	ions	of	railv	vay.						Date of opening.	Miles.	Total.	Grand total
				1							2	8	4	5
Chandod-Dabhoi-Jambusar s	ectio	m –									i			
Chanded to Dabhoi .										.	15-4-79	10.62		1
_Dabhoi to Goya Gate .											1-7-80	17:00		ł
Goya Gate to Vishvamitz	i.		•								24-1-81	1.63	ſ	
Vishvamitri to Padra .						•					1.7.97	7.14	l	1
Padra to Mobba					•					.	10-7-03	9.20	l	1
Mobha to Masor Road .							•				1-11-04	6.48		1
Masor Boad to Jambusa	r			•				•		- 34	1-5-17	6.88	ì	i
										1			58.95	1
Jarod-Bamlaya setension- Dabhoi to Jarod										- 1	*****			
		•	•	•	•	•	•	•	•	•	15-11-13	33.83		
Jarod to Samlaya		•	•	•	•	•	•	•	•	• [13-12-15	5.41		1
Bodeli Estension-													29*24	i
Dabhoi to Sankheda Bah	0.741	rnnı								- 1	17-9-79	9.64	1	
Sankheda Bahadarpur to				•	•	•	•	•	•	• 1	16-6-90	12:44		1
Sananous Samadarpur so		u011	•	•	•	•	•	•	•	. 1	10-0-20	12 40	22.08	1
Minagam branch-										- 1	1		24 00	
Miyagam branch— Dabhoi to Miyagam .											8-1-79	20 00		1
								•					20.00	1
Masor extension-													2000	i
Miragam to Malsar .										. 1	15-1-12	28.67		
*										- 1			23.67	Į.
									•	i				-
								ILEA:	G E	•	!	•••		153-94
INDER CONSTRUCTION OR BA	NCT	LIOI	NED	FOR	CON	STRU	CTIC	N		- 1				
Motipura to Tankhala (se	anoti	ione	ed o	n 25	th F	ebrus	ry 1:	114)		•	•••	26.25		1
Samlaya vin Savli to Tim	100 (Ran	ctio	ned	on 24	to A	pril	1914)	•			33.34		1
Choranda to Koral (sanct	none	30 C	on 2	acui.	nne	1911		•		.	•••	11.68		1
										- 1			P1.01	
										- 1	;-		71.31	
										- 1	-			71.31
						G	T2 A 30 1	o ror	A T.		i i	i		A35.05
						٠.					***		•••	\$25.21

Details of construction-

Permanent-way.-The line is laid with 31-lb. flat-footed steel rails on wooden sleepers, but about 5 miles are laid with 411 b. rails about one mile of 28-lb. iron rails in the road. The Masor Road-Jambusar Miyagam-Malsar and Jarod Samlaya sections are laid with 30-lb, steel rails on wooden sleepers,

Ballast.—The line is ballasted chiefly with sand.

Fencing.—The line is practically unfenced except in station yards. Curves.—The sharpest curve is of 500 feet radius.

Gradients. The ruling gradient is 1 in 400, with small lengths of 1 in 200 and 1 in 300. Jarod-Samlava section, it is 1 in 193 and on the Masor Road-Jambusar section, 1 in 1,000.

Agreements and contract-

Agreement, without date, having effect from the 1st January 1897, and as amended from time to time between the Government of His Highness the Maharaja Gaekwar of Baroda and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working, by the Company, of the Dabhoi railway.

Contract, dated the 8th April 1907, between the Secretary of State and the Bombay, Baroda and Central

Contract, dated the 5th Agril 1901, setween the secretary of State and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working, as from the lat January 1906, of the Bombay, Baroda and Central India, the Rajputana-Malwa and other subsidiary lines. Agreement, dated the 9th May 1916, between the Government of His Highness the Maharaja Gackwar of Baroda and the Bombay, Baroda and Central India Railway Company, as to the maragement, maintenance and working, by the Company, of the Miyagam-Malsar, Dabhoi-Jarod, Jarod-Samlaya, Saulaya-Timba, Masor Read-Jambusar and the Motipura-Tankhala extensions from the dates they are or shall have been opened for public traffic, subject to modifications of the working agreement of the Dabhoi railway.

Main provisions of agreement and contract-

- (i) Land.— (ii) Government oid.— } As noted under Petlad-Cambay railway (Anand-Tarapur section) (5'6"

- (iii) Terms of working.—

 The Company works the Dabhoi railway at actual cost, plus a sum equal to 10 per cent of total working expenses, but not less than Rs. 500 per mensem, for superintendence and lump sum payments, half yearly, for cost of working the Miyagam and Vishvamitri Junction stations; the railway is also debited with a contribution from its net carnings to the Company's Provident Fund calculated on the same basis as obtains on the Bombay, Baroda and Central India railway. The balance in favour of, or against, the Baroda Durbar is paid over to, or by it, as the case may be.
- (v) Rates and fares.—
 (vi) Special obligations as to the conveyance of.—
 - (a) Mails, troops, high Government officials and Government stores .-
 - (b) Government bullion and coin, and the persons in charge thereof.—

As noted under Petlad-Cambay railway (Anand-Tarapur section) (5' 6") gauge).

BOMBAY, BARODA AND CENTRAL INDIA RAILWAY SYSTEM-cont d.

Gaekwar's Dabhoi railway (2' 6" gauge) -concld.

(vii) Power of the Durbar to determine agreement.— The agreement may be terminated at any time (viii) Power of the Company to determine agreement.— on one year's notice from either side to expise on

the 30th September or 31st March in any year.

(ix) Term of contract [if not determined under (vii) and (viii)].—Not specified.

Statistics of working—(Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)

		Ye	ar.				Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.s., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross escuings.	Net earnings.	Percentage of net earn- ings on total capital notlay given in column (3),	Earnings per mile per week.	Proportion of expenses to earnings.
-		1					2	8	4	5 .	6	7	8
							Miles.	Rs.	Rs.	Rн.		Re.	
1908 1909 1910	:	:	:	:	:	:	94·48 91·48 94·48	25,94,874 25,99,530 31,41,668	4,66,069 4,98,182 5,95,304	2,44,526 2,81,813 3,46,177	9·42 10·81 11·01	95 101 121	47.53 43.48 41.85
1911 1912 1st qr. of 1913-14 1914-15 1915-16 1916-17 1917-18	1918	:	:	:	:		94·48 118·15 118·15 141·98 141·98 147·39 147·06 153·94	37,35,219 42,85,146 34,52,598 48,78,401 47,94,372 62,38,601 77,72,164 97,40,787	6,22,780 6,07,931 1,57,000 6,67,371 6,91,539 6,94,142 7,40,713 7,72,862	3,59,443 3,31,317 71,910 3,87,708 3,27,126 3,22,851 3,72,716 4,02,466	9:62 7:78 2:08 7:71 6:82 5:17 4:80	127 100 102 101 94 93 97 98	42:28 45:50 54:20 40:40 52:70 53:49 49:68 48:39

Kosamba-Zankhvav railway (2' 6" gauge)-

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.
1	2	3	4	5
Kósambá to Zankhvav	1-5-12	26.10	26-10	
Under construction or sanctioned for construction—Zankhvav to Bardipada (sanctioned on 23rd March 1914)		22 57	22.57	
GRAND TOTAL .				48.67

Details of construction-

Permanent-way.—The permanent-way consists of 411-lb. steel rails laid on jarrah and half-round jungle teak sleepers.

Ballast .- Metal ballast has been provided between stations and sand ballast in station yards.

Fencing .- No fencing has been provided.

Curves. - The sharpest curve is of 600 feet radius.

Gradients.—The ruling gradient is 1 in 200 with short lengths of 1 in 150, 1 in 125 and 1 in 100.

Agreement-

Dated the 6th December 1915, between the Government of His Highness the Maharaja Gaekwar of Baroda and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working of the Kosamba-Zankhvav railway.

Main provisions of agreement-

As noted under Bilimora-Kalamba railway (2' 6" gauge).

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Not earn- ings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to oarnings.
1	2	3	4	5	6	7	8
1912 1st qr. of 1913 . 1918-14 1914-15 1915-16 . 1916-17 .	Miles. 26:12 26:12 26:12 26:12 26:12 26:10 26:10	Ra. 12,27,218 12,65,586 12,79,032 13,07,064 18,24,967 13,28,746 13,28,600	Rs. 12,909 6,152 25,382 25,234 81,640 32,584 36,460	Hs. -11,207 - 4,272 -12,545 -14,379 -12,987 -34,742 -10,472		Rs. 14 18 19 19 23 24 27	186:21 160:42 149:42 136:98 141:05 206:62 128:72

BOMBAY, BARODA AND CENTRAL INDIA RAILWAY SYSTEM-contd.

Petlad-Vaso railway (2' 6" gauge)-

Progress in opening-

		Sections	of railway	7.	Date of opening.	Miles.	Total.	
			1			2 .	8	4
Petlad to Vaso		•••			 	10-12-14	15.75	
Vaso to Pihij	•••	•••		•••	 	1 7-4- 15	3.20	
			To	TAL	 			19:25

Details of construction -

Permanent-way.—The line is laid with 30-lb, flat-footed steel rails on wooden sleepers,

Ballast.—For the present the line is packed with moorum ballast. The Vaso-Pihij section is ballasted with gravel.

Fencing .- The line is unfenced, except in station yards.

Curres .- The sharpest curve is of 361 feet radius.

Gradients .-- The ruling gradient is 1 in 500.

Agreements-

Dated the 17th November 1914, between the Government of Hiss Highness the Mahavaja Gaskwar of Baroda and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working of the Pethad-Vaso railway.

Dated the 17th June 1915 (supplemental to the agreement of 1914), between the Government of His *Highness the Maharaja Gaekear of Baroda and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working of the Vaso-Pihij extension, with effect from the 17th April 1915, as an integral part of the Petlad-Vaso railway.

Main provisions of agreement-

As noted under Bilimora-Kalamba railway (2' 6" gauge).

Statistics of working --

Yoar.		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i. e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross carnings,	Net carnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
		2	3	4	5	6	7	6
1914-15 1915-16 1916-17 1917-18	!	Miles, 15:50 19:08 19:25 .9:25	Rs. 6,71,440 7,60,122 8,79,785 8,99,964	Ra. 9,293 54,066 60,805 65,219	Rs. 2,116 12,862 20,007 21,305	0·32 1·67 2·27 2·37	Rs. 38 55 61 65	77·28 76·21 67·10 67·33

Rajpipla State railway (2' 6" gauge)-

Progress in opening-

		8	Secti	ons o	f rai	lw ay .					Date of opening.	Miles.	Total.	Grand total.
The same state of the same sta			1								2	8	4	5
Anklesvar to Raj-Pardi Raj-Pardi to Umalla		:	٠				:	:			1-7-97 19-1-99	19·13 4·95		
Umalla to Amletha . Amletha to Nándod Stat	ion.	:	:				•	:	:	:	1-6-99 20-7-99	7·85 5·57		
Nandod Station to Nando	od T	OWII	•	То	· TAL	open	MI	L B AG		•	10·11-17 		39-24	

Details of construction -

Permanent-way.—The line is laid with 414-lb. flat-footed steel and iron rails on half-round jungle teak sleepers.

Ballast .- The line is ballasted chiefly with coarse river sand.

Fencing.—Only the station yards and small lengths at miles 4 and 9 are fenced.

Curves .- The sharpest curve is of 1,482 feet radius.

Gradients.—The ruling gradient is 1 in 150. Between Nandod Station and Nandod Town it is 1 in 100.

BOMBAY, BARODA AND CENTRAL INDIA RAILWAY SYSTEM -conced.

Rainipla State railway (2' 6" gauge) -concld.

Contract and agreement-

Agreement, dated the 19th Murch 1900, between the Rajpipla State and the Bombay, Baroda and Central India Roilway Company, as to the maintenance and working of the Rajpipla State railway.

Contract, dated the 8th April 1907, between the Secretary of State and the Bombay, Baroda and Contral India Railway Company, as to the management, maintenance and working, as from the 1st January 1906, of the Bombay, Baroda and Central India, the Rajputana-Malwa and other subsidiary lines.

N.B.—A revised agreement, which shall be held to have come into force from the 10th November 1917 superseding the agreement of 19th March 1900, is under consideration.

Main provisions of agreement and contract-

- (i) Land .- Provided free of cost by the Rajpipla State.
- (ii) Government aid .- The line is the property of the Rajpipla State (which provides all funds chargeable to the capital account), and is managed, maintained, stocked and worked by the Bombay, Baroda and Central India railway as part of the Company's system.
- (iii) Terms of working—

 (iv) Distribution of profits.—

 The Rajpipla State railway is debited with the actual cost of working and a share of the working expenses at Anklesvar Junction, plus a sum equal to 123 per cent. on total working expenses in the half-year for
- supervision, but such supervision shall not be levied unless the net carnings of the Rajpipla State railway give a clear return of 31 per cent per annum on the capital cost of the line, and then only to the extent that the balance of the net earnings may permit after a clear return of 3) per cent per annum has been allowed to the Rajpipla State railway on the total capital expended, and in addition thereto a contribution from its net carnings to the Company's Provident Fund calculated on the same basis as obtains on the Bombay, Baroda and Central India railway. The balance in favour of, or against, the Rajpipla State is paid over to, or by it, as the case may be.
- Rates and fares. Are to be fixed from time to time by the Company in communication with and (v) subject to the approval of His Highness' Government.
- As under Petlad-Cam-(vi) Special obligations as to the conveyance of .--(a) Mails, troops, high Government officials and Government stores. bay railway Anand-Tarapur section).
- (b) Government bullion and coin, and the persons in charge thereof. (vii) Power of the Rajpipla State to determine agreement.—
 | The agreement may be determined by either party, at the end of any financial half-year off one year's notice from either side.
- (viii) Power of the Company to determine agreement .-

(ix) Term of agreement [if not determined under (vii) and (viii)] .- Not specified.

Statistics of working-(Those for the periods prior to 1908 will be found in Appendix 3 to the Railway Administration Report for 1907

Year,	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., cutlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2 7	3	4	5	6	7	8
***	Miles.	Rs.	fts.	Rs.		Rs.	
008	37:37 37:37 37:07	13,53,352 13,61,115 13,64,149	81,269 83,439 1,02,324	27.4%2 28,888 41.189	2:03 2:13 3:02	42 43 53	66:18 65:38 59:7 5
911	37:37 97:37 37:37 37:37 37:37 37:37 37:40 39:24	13,90,221 13,90,293 14,18,423 14,18,501 14,29,469 14,72,251 16,26,463 17,13,68	1,23,490 1,19,151 49,567 1,29,663 1,28,585 1,28,696 1,18,909 1,35,561	54,836 44,460 24,677 45,365 49,678 53,794 53,429 (49,849	3:94 3:20 1:75 3:20 3:48 3:99 3:11 2:91	61 90 67 66 86 61 66	55:59 62:69 48:36 65:01 61:37 54:32 57:47 63:23

Navsari-Kamrej Light railway (2' 6" gauge)-

Sanction to the construction of this steam tramway by the Baroda Durbar was conveyed in the Foreign and Political Department letter No. 185-1-B., dated the 4th February 1914.

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
	2	3	4
The second secon			
Navsari vid Palsana to Kamrej (sanctioned on 4th February 1914)		20.00	20.00

BOMBAY PORT TRUST RAILWAY (5' 6" gauge)-

The railway serves all the Docks of the Port of Bombay and also the Bunders on the east of the Island north of the Ballard Pier, as well as various depôts allotted to certain trades, and is used for goods and troop traffic only.

It consists of a double line track for its whole length, as well as of reception and sorting yards, depôts

stations, and numerous sidings in the docks.

Sanction to the construction of this line by the Bombay Port Trust was conveyed in Railway Board's Notification No. 152, dated the 28th May 1913, and at the end of March 1918, 105 miles of track were laid and connected up.

Progress in opening-

Sections of railway.				Date of opening.	Miles.	Total.
I				2	. 3	4
Wadala Junction to Victoria Overbridge Victoria Overbridge to Docks	 		:::	1-1-15 1-2-15	7:40 6:84	
		TOTAL				13.74

Details of construction-

Permanent-way.—The tracks are laid throughout with 75-lb. flat-footed steel rails on wooden sleepers principally jarrah, teak and sal with spike fastenings.

Bullast. - As the greater part of the railway is laid on newly reclaimed ground, moorum ballast is used extensively for packing and boxing, and will be used until such time as it is considered that a firm formation has been obtained. On old ground blue stone trap ballast is provided. Over several parts of the Sewri-Mazagon reclamation it was found necessary to carry the rails on wooden mattresses owing to severe settlement. The largest mattress is 900 feet long.

Fencing .- The line is being fenced where necessary.

Curves .- The radius of the sharpest curve is 800 feet outside the dock area and 500 feet within the

Gradients. - The steepest grade on the line is I in 277, near the Nawab Tank bridge.

Contract -

Nil. The line is owned and worked by the Bombay Port Trust. Main provisions of contract-

Statistics of working-Not available.

CALCUTTA PORT COMMISSIONERS' RAILWAY (5' 6" gauge)-

The railway serves the godowns, warehouses, jetties, workshops, jute, sugar, tea, rice and grain depots, timber yards, mills and coal depots on both the Calcutta and Howarin Foreshores, and is used for only goods traffic. The railway consists of single and double tracks, and there are a large number of sidings for crossing trains and loading goods. The mileage of track including all sidings amounts to 15:288.

The first section, from Chandpal Ghât to Kidderpore Docks, was faid in 1886, being included in the general sanction for the Docks, and was used solely for the carriage of material for the construction of the Docks. It was opened to general goods traffic in 1891.

Progress in opening -

Sections of railway.	Date of opening.	Miles.	Tetal.	Grand total.
1	2	3	4	5
Lines on the Calculta Foreshore—				
Main line— Cossipore (Gun Foundry Road) to Bagh Bazar	1-6-78	1:14		
Bagh Bazar to Meerbohur Chat	11-1-75 1-6-78	1.76		
Jotties to Chandral Ghit	1-12-80	0.32		1
Chandpal Ghat to Kidderpore Docks (Graving Dock). Graving Dock to Chetla	1-1-87 0-0-93	2.16		
Graving Dock to Chemic	0.0.50	3:20	9:42	!
Branches-	0.000			i
Graving Dock to Majherat Dock Junction to Bengal-Nagpur railway junction	0-0-93 0-0-01	2 34 1:35		
Shapore to Garden Reach Jetties	2-7-16	2:13		
•			5.82	1
Line on the Howrah Foreshore -			. 62	
Telkul Ghat vid Bhurpara Khal to Shalimar	31-12-01	!	2.23	
GRAND TOTAL .				17:47

Details of construction-

Permanent-way.—The Cossipore-Chandpal Ghât section is laid with steel units weighing 75 lbs, and 60 lbs. to the yard on wooden sleepers. The Chandpal Ghât-Kidderpore Dack section is laid with 75-lb, double-headed and flanged rails on wooden sleepers and partly with East Indian initiary second-hand material on wooden sleepers. The Shalimar branch is laid with 75-lb, double-headed steel rails on east iron chairs and flanged rails spiked on sal sleepers. The Dock section is laid with 60-lb, and 75-lb, flanged and double-headed rails laid on wooden sleepers.

Ballast.—On the Cossipore-Chandpal Ghât section, packing and bexing is generally cone with coal einders and in some places with 1st class ballast. The Chandpal Ghât-Kidderpore Dock section is packed with brick ballast. On the Shalimar branch, packing is done with 1st class jhom; ballast.

Fencing.—The line is fenced throughout. The Chandpul Ghât-Kidderpere Dock section is fenced on both sides.

Curves.—The radius of the sharpest curve is 250 feet.

Gradients.—The ruling gradient on the greater part of the railway is 1 in 300, every where the line passes under the Howrah bridge approach, where the gradient is 1 in 80 and between Hasting's bridge and Watgunge where the gradient is 1 in 190.

Contract-

Nil. The line was constructed by the Port Commissioners out of Port Trust Funds and is maintained and worked by them. The land from Chandpal Ghât to Ahiritollah Ghat was originally transferred to the Commissioners by Government for which the former pay a quit rent of Rs. 37,292 per annum. The land north of Ahiritollah Ghât was acquired by the Commissioners under the Land Acquisition Act and that south of Chandpal Ghât was transferred by Government to the Commissioners.

Statistics of working ... Not available.

176RB 11

The lines owned by the late Eastern Bengal Guaranteed Railway Company were acquired by the State on the 1st July 1884, with which the Northern Bengal State and the Calcutta and South Eastern railways were amalgamated for working by the State as one undertaking under the name of the Eastern Bengal railway.

Date of registration of the late guaranteed company .- 1857.

Lines comprised in the system.—The Eastern Bengal railway system is made up of-

			Open line.	or	ler construction sanctioned for construction. Miles.	Total.
(a) Eastern Bengal railway (5' 6" gange) (b) Sara-Sirajann railway (5' 6" gange) (c) Eastern Bengal railway (3' 3j" gange) (d) Eastern Bengal railway (2' 6" gange) (d) Coool Behar Stato railway (3' 3j" gange) (d) Wymonaingh-Jamahur-Jagannathganj railway (3' 3j" gange (f) Khulna-Bagirhaut railway (2' 6" gange)	Total		569·26 53·12 977·72 35·10 35·09 56·05 		19 ⁻ 66	569 26 53 12 977 72 35 10 33 09 56 05 19 66
Running powers— Foreign line over home line:— East Indian railway, Naihati to Chitpore Sealdah and Majherat Assem Bougal gailway Tangi to Narayangan;	: :		: :	: .:		36·88 23·00
		•		• •	•	59.88

Fastern Bengal railway (5' 6" gauge)-

Progress in opening -

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	Remarks.
1	2	3	4	5	6 4 3 6
SPERN SECTION -					
Main line-					
Calcutta to Banaghat Ranaghat & Forsdaha Junetion Forsdaha Junetion to Bhairamara Bhairamara to Shakhole (3 miles south of Gopalpur) Shakhole (3 miles south of Gopalpur) to Santahar.	29-9-62 15-11-62 19-1-76 1-1-15 1-11-14	45.74 57.12 11.73 14.41 44.63			
Branches -			173-63		
Kakuryachi chord—					
Kakurgachi Road to Gobra	1-2-07	2.26			
Ohitpore Tarminus extension-	-		2.26		
Belgachhi bridge to Cossipor	1-3-03	*0.68			
Dum Dum Chitpore low level connection -	10-12-13	*1.18	1.66		
	20-10-14	*1.66	2.84	1	1
Pattipe oker-Chitpore connection	4-12-10	• 1·17			For goods
Murshidabad bransh— Banaghat to Bhagwangola Bhagwangola to Krishnapur Krishnapur to Lalgola Ghat	1-9-05 10-11-05 15-7-07	88.85 5 90 0.22	1.17		traffic only.
Qualitude extension— Poradaha Juretion to Jagati Junction	15-11- 6 2	4.58	94.97		
Jagati Junction to mile 145'74	1-1-71 20-6-11	87·87 0 73			
Mile 145 74 to Pachooria Junction	1-4-90	3 16 5 00			
Pachooria Junction to Goalundo	22-10-9- 27-11-17	5.53	***		
Kushtia loop— Jagati Junction to Kushtia Kushtia to Kaligunga Junction	16-2-64 1-8-81	3·77 1·33	56.57		
Faridpur branch— Pachooria Junction to Shivarampore Shivarampore to Faridpur	20-10-99 9-4-90	8·77 5·14	5.10		
Durgapur Ghat line-	1-7-07	• 4.51	18-91		
Fakirabad Ghat line	5-7-12	8 45	4.21		
Raila Branch - Bhairamara to Raita	1-12-16	9-29	3.45		
Churni extension	1-1-02	1.20	9.29		
	-		1.20		

Eastern Bengal railway (5' 6" gauge)-contd.

Sections of railway.		of opening.	Miles.	Total.	Grand total.	Remarks.
AND A SECOND OF THE PARTY OF TH		2	3	1	5	6
Brought forward, Eastern section	٠				370-86	! 1
Southern section-			1			
Main line —			1			
Calcutta (Beliaghata) to Sonarpur Sonarpur to Baruipur Baruipur to Magra Hat Magra Hat to Diamond Harbour	•	2-1-62 10-6-82	10.00 2.30			
Baruipur to Magra Hat Magra Hat to Diamond Harbour		18-12-82 23-4-83	9·55 12·69			
Diamond Harbour towards Hara Fort	:	25-4-83	•0.42		-	
		-		37.96		For goods train principally, casionally us
Branches-						casionally us
Canning branch—			i			for troops sp
Sonarpur to Champahati		2-1-62	5.00 12.79			
Champshati to Port Canning	:	15-5-68 5-3-00 17-11-02	0.25			
Rudge-Rudge branch-		i -	0.81	18-85		
Ballygunge to Budge-Budge	•	1-5-90	13.66	13.66	Í	
TOTAL, SOUTHERN SECTION .					70.47	
ENTRAL SECTION			,			
Main line-	i					
Dum Dum Jungtion to Dattapukur		2-1-83	14:25			
Dattapukur to Gobardanga	÷	7-12-83 22-4-84	14·25 17·00 12·00		Ì	
Gobardanga to Bongong Bongong to Khoolna	:	16-2-84	61.25	104-50		
Branches —				104 50		
Ranaghat to Bongong		16-10-82 1-8-(4	20·75 2·68			
Dum Dum Cantonment to Pattipooker .	•	-		23.43		
TOTAL, CENTRAL SECTION .					127:93	
TOTAL OPEN MILEAGE .					569-26	
UADRUPLE LINE-						
On the main line of Eastern section—						
G. 14-1, to Kalayamahi		18-2-16	0.75		1	
Kakurgachi to Dum Pum Dum fum to Barrackpore	:	1-2-07 12-12-12	10 30			
Barrackpore to Kankinara	٠	21-11-12	7.25	21:47		
					21.47	
RIPLE LINE-		i				
On the main line of Eastern section— Naihati to Halishahar		11-11-14	1-69	1.69		
2112222		-			1.69	
OUBLE LINE-	i					
On the main line of Eastern section -	'	(1-8-86	1.76			
Kankinara to Naihati		21-3-87 20-4-92	0.26 +3.00			tEroluding t
Naihati to Kanchrapara Kanchrapara to Banaghat	:	12-11-92	17:56	ī		triple length.
	٠	7-8-97 17-9-97	5·50 6·75			
Aranghata to Bogoola	•	3-11-97	6.65 0.75			
Bogoola to Shibnibash	•	29-11-09 17-9-97	0·15 9·50	i	,	
Shibnibash to Dursuna Dursuna to Poradaha	•	f 7-H-97	27:58 0:24	!		
Poradaha to Bhairamara		27-11-09 17-10-13 25-1-15	6·73 5·00			
Poradaha to Bharamara Bhairamara to Ishurdi Junction		25-2-15	10.25	101.95		
O. D. Laurahan of Eastern section-		-				
		1-2-07	2.26	1		l İ
Kakurgaent to doorte		13-4-88	0.82	2*266		
Chitpore branch, a portion	•		1.18	0.83		
Dum Dum-Chilpore low level connection .	•	20-10-14	1.66	2.84		
	- 1	-		- 0-1		1
Total carried over				107:87		ł

Eastern Bengal railway (5' 6" gauge)-contd.

Progress in opening-concld.

Sections of railway.		Date of opening.	Miles.	Total.	Grand total.	Remarks.
1		2	3	4	5	6
DOUBLE LINE-concid. Brought forward	- .		***	107:87		
Pattipooker-Chitpore connection	.	20-10-14	1.17	1,12		
Goalundo extension— Poradaha Junction to Jagati Junction	1	2-3-15	4:28			
On the main line of Southern section— Sealdah to Ballygunge Ballygunge to Jadabpur Jadabpur to Baruhpur	. {	20-10-88 19-9-90 10-10-13 23-11-15	3°50 0°36 1°35 10°39			
On the branches of Southern section — Budge-Budge branch—		20-11-93	4:00	15:60 4:00		
Total bouble ling					132.92	

Details of construction-

Permanent-way.—The permanent-way consists mostly of steel rails and sleepers of wood and iron. The steel rails are of various types: (i) 90-lb. flat-footed laid on (a) the new double goods track between Dum Dum Junction and Kankinara, and between Sealdah and Kakurgachi, (b) the up and down tracks between Kahurdi and Poradaha and Jagati, (c) the track between Ishurdi and Santahar, (d) the line from Jagati Junction via Kushtia Chord, to Faridpur and the Kushtia loop line, (c) the Murshidabad tranch between Ranaghat and Krishnagar city, (d) the up and down tracks on the Pattipooker-Chitpore connection, from Pattipooker to sub-way at Canal Junction Cabin, (g) the up and down tracks on the low level line between Dum Dum and Canal Junction, (b) the whole of the Central section; and (i) the up and down tracks between Balughata and Tiljala and between Balughari and Baruipur and the single line between Baruipur and Diamond Harbour and between Sonarpur and Taldi; (ii) 85-lb, bull-headed laid on (a) the original double line between Calcutta and Kankinara, (b) the new double track between Dum Dum and Kakurgachi and (c) the up and down tracks between Kakurgachi and Majherat rid Tiljala; (iii) 75-lb, double-headed laid on the third track between Kakurgachi and Halishahar; (iv) 55-lb, new pattern flat-footed laid on the Southern section between Taldi and Canning and Majherat and Budge Budge,; and (vi) second-hand 62-lb, flat-footed laid on the Churni Extension.

The line from sub-way at Canal Junction Cabin to Chitpore, is laid partly with 75-lb. double-headed and partly with 75-lb. flat-footed rails. A few short lengths near ghat stations at Goalundo are still laid with old iron permanent-way.

All flat-footed rails, as a rule, are laid on wooden sleepers, excepting for a few short lengths between Naihati and Poradaha where cast it on sleepers have been used under 90-lb rails. The 85-lb. bull-headed rails are laid on the Denham and Olphert's sleepers, with wooden sleepers at joints and continuous joint pattern could include chair-fish plates, or on Denham and Olphert's cast iron sleepers, with wooden sleepers and cast iron chairs with wooden keys at joints. The 75-lb. double-headed rails are laid on the ordinary cast iron or on Denham and Olphert's cast iron or on wooden sleepers. The 73-lb. double-headed rails are laid on Denham and Olphert's cast iron or on wooden sleepers with east iron chairs and wooden keys.

Ballast.—On the main line of the Eastern section, from Bhairamara to Shakhole, the line is ballasted with broken trap and onward to Santahar with shingle. Where 85-lb. bull-leaded rails have been laid, brick ballast has been replaced by stone. The ballast on the lengths relaid with 90-lb. rails is also being gradually replaced with stone. The bottom ballast on the Murshidabad branch is brick and the ballasting is being completed with stone. The second tracks between Poradaha and Bhairamara and Poradaha and Jagati are ballasted with broken trap and shingle, respectively. The new double goods track between Kankinara and Dum Dum is fully ballasted with shingle. The new second track between Ballygunge and Barnipur on the Southern section is mainly ballasted with brick. The Canning branch is practically unballasted and the Faridpur branch only at the bridges.

Fencing.—The whole of the Eastern section is fenced, except between Pachooria Junction and Goalundo and the Faridpur branch. The Southern section is fenced except the Canning branch. The Central section is fenced throughout.

Curves.—The sharpest curve is of 1,000 feet radius.

Gradients.—The ruling gradient is 1 in 300; except between miles 160 and 162 on the Faridpur branch, where it is 1 in 100. There is also a short length of 1 in 200 grade on the low level approaches to Chitpur from Dum junction.

Eastern Bengal railway (5' 6" gauge)-concld.

Contracts.

Nil .- The line is owned and worked by the State.

Rates and fares .- Certain maxima and minima have been fixed by the Government, between the limi of which the Railway Administration can vary the rates and fares for goods and cosching traffic.

Statistics of working —(Those for the periods prior to 1888 will be found in Appendix 38 to the Railway Administration Reportfor 1967)—

Year.	outlay, including suspense, to end of each open year, i.e., out-		ng auspense, end of each send o				of net earnings on total general and the State perfaming the given in a capital outlay Interest. Annuity.		Annuity. to the State		Earn- ings per mile per week.	Proper tion of ex- penses to earn- ings.
1	-	2	8	4	5	6	7	R	و	10	11	
	- N	liles.	Ra.	Re.	Bs.		Rs.	Rs.	Rs.	Re.		
888	. 1 -	678-21	9,36,48,486	1,05,19,210	55,25,424	5.90	28,83,744	20,11,011	+ 6,30,669	283	47:4	
889	: 1	746.40	9,73,16,143	1.11.76,674	61,91,625	6.36	30,18,703	20,43,953	+11,28,969	282	44 G	
890		763.90	10,04,93,109	1,14,78,382	60,70,323	6.04	80,96,150	18,14,110			47.1	
800	.	100 20	10,02,00,100	1,14,10,002	00,70,020	6.00	00,00,100	10,14,110	+ 11,60,063	271	2/1	
891	.	776-57	10,19,64,737	1.26,75,440	65,32,100	6:40	32,01,166	19,48,198	+ 13,82,736	294	48.4	
892	. 1	812.85	10,48,66,143	1,15,56,446	62,38,727	5-94	33,53,707	21,86,396	+ 6,93,624	270	460	
898		812-71	10,56,47,715	1,20,51,147	66,35,138	6.28	38,88,241	22,14,254	+ 10,32,643	283	44-9	
894		812-96	10,61,71,400	1,40,15,726	83,53,559	7.87	34,72,411	25,21,063	T 10,02,090		40.4	
		813.65		1,45,20,720	00,00,000		01.10.101	20,41,000	+ 23,60,085	314		
8 9 5	.	819.65	10,76,16,616	1,45,09,739	89,74,474	8:34	35,12,105	25,10,875	+ 29,51,494	328	38.1	
896	. 1	814:39	11,02,05,096	1,50,81,670	90,02,286	8-17	35,15,387	23,46,898	+ 31,40,001	344	40.3	
897	. 1	817.88	11,51,93,689	1,47,62,233	80,66,998	7.00	37,20,343	22,13,438	+ 21,33,212	336	45.9	
898	11	227.87	11,82,79,103	1,47,17,879	83,35,064	7.05	38,62,725	21,01,651	+ 23,70,688	334	43.3	
899	: 1	832-18	12,20,74,261	1,56,12,486	83,01,083	6.80	39,79,133	20,83,534	+ 22,38,416	348	46-6	
900		843.01	12,62,77,100	1,71,00,460	92,46,424		41,82,033	20,87,252	1 22,00,310			
	.	543 U.	12,02,11,100	1,11,00,400	32,40,42+	7.32	41,02,000	20,01,202	+ 29,77,139	376	45.8	
901		854.89	13,24,19,708	1,65,99,440	83,08,281	6.27	43,55,321	20,93,467	+ 18,59,493	360	49.5	
902	. 1	898-18	14,04,06,863	1,78,93,098	91.48.840	6.2	46,69,423	20,88,413	+ 23,90,504	381	481	
903	.1	897.87	15,21,86,102	1,81,52,429	88,57,094	5.82	50,13,335	20,87,434	+ 17,56,325	375	51.5	
904		971 31	16,55,23,769	1,94,63,098	88,28,372	5.33	54,62,375	20,87,434	+ 12.39.966		54	
905		234.98	19,08,88,052	2,03,73,194	96,19,904	5.01	59,23,921	20,87,434			52	
200	. 2,	40 2 30	10,00,00,004	2,03,13,134	30,13,304	2.01	30,23,821	20,07,934	+ 16,08,546	348	52	
906	ĺ 1.	271.29	20,28,66,593	2,46,31,081	1,06,08,661	5.24	68,54,092	20,87,484	+ 16,67,185	360	561	
907	. 1 1,	278 61	21,54,21,452	2,65,68,569	1,03,15,781	4.79	63,94,610	20,87,434	+18,33,737	389	61	
908		274.47	22,87,26,095	2.73,15,420	81,99,105	3.58	70,30,092	20,87,434	-9.18,421	412	69	
909		503 09	24,27,44,601	2,77,24,064	97,10,666	4.00	78,15,941	20,87,434	+3.07.291	355	64	
910		507.73	25,55,91,026	2,83,74,562	1,16,98,257	4:58	75,34,551	20,87,434			09	
1910	- 1 -	,507 13	20,00,01,020	2,00,12,002	1,10,30,237	1 00	13,34,331	20,07,939	+20,76,272	366	58	
911	1.	509.62	27,11,51,904	3,15,19,633	1,17,55,233	4:83	79,48,581	20,87,434	+17,19,268	402	62.7	
912	. 1 1	569.83	29,00,69,252	3,43,38,589	1,39,40,687	4:81	84,00,069	20,87,434	+34,53,184		59.4	
st qr			1	.,,,	1		,,	1,-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 53,00,103	1 320	1 00 7	
of 191	1	571.68	27,69,68,503	89.52.207	34,79,977	1.26	21.70.558	5,21,850	+7,87,560	438	61	
913-14		581.43	32,69,88,602	3,75,42,065	1,66,52,046							
	. 1	101.43			1,00,02,016	5.09	1,01,87,669	20,87,931	+ 40,76,943	460	55	
914-15	. 1 1,	639.05	85,01,65,002	3,32,49,934	1,14,97,731	3.28	1,12,22,488	20,87,484		401	65	
1915- 16		16:8:91	35,98,80,436	3,48,28,835	1,37.75,460		1,17,12,779				69	
916-17		627.88	36,29,18,133	3,69,89,330	+1,68,75,235	4.68	1,15,44,512	19,68,750	+ 53,61,973	437	54	
917-18	1 1	582 03	36,53,74,519	3,47,38,908	+1,46,36,653	4 08	1,22,11,218	10 75 155	+4.50,280	405	57.	

Sara-Sirajganj railway (5' 6" gauge) -

Date of registration of the Company-1913.

The construction of this line by the Eastern Bengal railway on behalf of the Sara-Sirajganj Bailway Company was sanctioned in Railway Board's Notification No. 277, dated the 10th October 1913. The line takes off at Ishurdi in an easterly direction and terminates at Sirajganj on the banks of the Jamuna, which is the local name for the Brahmaputra river.

Progress in opening-

	Becti	ons	of rai	lway						Date of opening	Miles.	Total.
			1		 		 			2	8	4
Ishardi to Bhangoora										1-7-15	21.25	
Bhangoora to Sirajganj Bazar.							W.			25-7-16	28:41	
Sirajganj to Sirajganj Ghat .	• ·					•	•			17-12-16	3:46	
					 		To	'AL	•	•••		53-12

^{*}Excluding Bs. 33,597, representing payment made to the Brahmaputra Sultanpur Branch Railway Company up to 1st A ril 1904 on account of surplus profits and other adjustments.

† Excluding payments made to the Darjoing Himsulyan Railway extensions and Sara Sirajganj Railway on account of rebate.

Sara-Sirajganj railway (5' 6" gauge) -contd.

Details of construction-

Permanent-way. - The permanent-way consists of 90.1b. flat-footed steel rails laid on sal and jarrah sleepers on the main line and passenger sidings and on old steel trough sleepers on the goods sidings. The permanent way on the Sirajganj Ghat line consists of 75 lb. double headed and flat-footed rails laid mostly on wooden sleepers.

Ballast .- The ballast consists of sandy earth just sufficient to pack the line for running.

Fencing .- The line is unfenced.

Curves .- The sharpest curve is of 5,780 feet radius.

Gradients .- The ruling gradient is 1 in 300.

Contract-

Dated the 14th April 1916, between the Secretary of State for India and the Sara-Sirajganj Railway Company, as to the construction, maintenance and working of the Sara-Sirajganj railway, by the agency of the Eastern Bengal railway.

Main provisions of contract-

- (i) Land .- Land in British territory provided by Government free of cost.
- (ii) Government-aid .- For the more convenient and economical construction of the railway, its execution was undertaken by the Government, who also stock, manage, maintain and work it through the agency of the Eastern Bengal railway. The Government agree to allow to the Company, in respect of each year, by way of rebate, such a sum, not exceeding in any year the net earnings from traffic interchanged between the Eastern Bengal railway and the Company's railway, as shall, together with the net earnings of the Company for the said year, make up an amount equal to interest for such year at a rate of 5 per cent, per annum on the share capital of the Company for the time being paid up and shall also allow Rs. 15,000 per annum and such other actual expenses as may be incurred by the Company for or towards office expenses and expenses of management and direction of the Company and also such legal expenses as shall have been approved by the Secretary of State.
- (iii) Terms of working.—For management, maintenance, working and the use of rolling-stock, the Eastern Bengal railway shall retain, every half-year, a percentage of the gross earnings of the Sara-Sirajganj railway shall bear the same proportion to the gross earnings of the said railway, as the working expenses of the Eastern Bengal railway, including the said railway bear to the gross earnings of the Eastern Bengal railway, including the said railway, up to a maximum of 50 per cent.
- (iv) Distribution of profits.—If the net carnings exceed 5 per cent on the paid up share capital of the Company, the office expenses and expenses of management of the Company, as at (ii) above, shall be a first charge on the surplus profits and the balance of the profits shall be divided equally between the Secretary of State and the Company; provided that if the surplus profits are insufficient to meet the administration charges the balance will be paid to the Company by the working agency out of the stipulated percentage of the earnings retained by the working agency as working expenses.
- (v) Rates and fares .- Same as on the Eastern Bengal railway.
- (vi) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Government officials and Government stores—} None specified.
 - (b) Government bullion and coin and the persons in charge thereof-
- (vii) Power of the Government to determine contract.—The Government may determine the contract, by giving 12 months' "notice of purchase", either on the 30th September 1946, or on the 31st day of March in the last year of any subsequent period of ten years, in which case the Government undertake to pay to the Company, within 4 months from the date of the determination of the undertake to pay to the company, which a mount of the average yearly not earnings of the Company's line (excluding payments on account of rebate) derived during the three years preceding the time at which the contract is determined, provided that the total amount so payable to the Company does not exceed 20 per cent the total capital expenditure of the Company or is less than such capital expenditure.

The contract may also be determined by giving to the Company 12 months' "notice of special purchase" in the following cases :-

- (a) When the Secretary of State considers it desirable that the gauge of the said railway should be altered.
- (b) When it is desired to convert the said railway into a line of through communication.
- (c) When the Secretary of State desires to extend the said railway and the Company does not, within six months from date of formal requisition from the Secretary of

State, raise such additional capital as is necessary for this purpose.

If the contract be determined by "notice of special purchase", the Government undertakes to pay to the Company 25 times the average net earnings of the Company's line (excluding payments on account of rebate) derived by the Company during the three years preceding the time at which the contract is determined or 115 per cent of the total capital expenditure of the Company whichever may be the greater.

- (viii) Power of the Company to surrender contract.-Nil.
- (ix) Term of contract if not determined under (vii) .- None specified.

Sara-Sirajganj railway (5' 6" gauge)—concid. Statistics of working—

Year.	Mileage open at the end of each year.	Total capital outlay, including susponse, to the end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	the East- ern Ben-	Total income.	Percentage of total income on total capital outlay given in column (3).	Earn- ings per	Proper- tion of expenses to earn- ings.
	2	3	4	5	6	7	8	9	10	14
1915-16 1916-17 1917-18	Miles. 22:37 52:98 58:12	Rs. 76,48,161 86,79,657 86,48,504	Ba. 1,31,780 2,68,182	85,890 1,34,091	0·76 1·55	Rs. 100401 1,97,138	Rs. 1,66,291 3,31,229	 1.92 3.83	Rs. 96 97	50-00 50-00

* Credited to capital.

Eastern Bengal railway (3' 33" gauge)-

Progress in opening-

Sections of railway.	Date of opening.	Miles,	Total.	Grand total.	Remarks.
1	2	3	4	5	6
Main line-	1	1			į
Manihari to Katihar	1-4-87	13.04			i
Junction with the Bengal and North-Western	8-3-01	0.69			The line be-
railway at Katihar.					tween Teems
Katihar to Rayganj	1-7-89	37:49			Junction and
Raygani to Dinagepore	15-2-88	82.68			Mogalhat was
Rayganj to Dinagepore Dinagepore to Chirir Bandar	16-5-84	8.75			originally
Chirir Bandar to Parbatipur Junction	1.7.83	9.89			opened on the
Parbatipur Junction to Shampur	19-5-78	15.74			2' 6" gauge as
Shampur to Rungpore	2-7-78	7.50			a part of
Rangpore to Kaunia	1-6-79	11.25			the Kaunia-
Kaunia to Mogalhat (including Teesta Bridge).	1-4-01	17.19			Dharlla (2' 6"
Mogalhat to Gitaldaha Junction	2-1-02	1.86			gauge; branch
Gitaldaha to Golakganj	23-9-02	24.33			on 6th Feb.
Golakgani to Kokrajhar	1-2-06	35.78			ruary 1882.
Kokrajhar to Sorbhog	1-3-09	39.73			1
Sorbhog to Amingaon (on the right bank of the		67:27			1
Brahmaputra).					1
Pandu (on the left bank of the Brahmaputra) to	1-1-10	5.00			1
Gauhati.					1
	!		328.1		1
Santahar-Siligari section-		1			
					1
Santahar Junction to Jalpaiguri	28-8-77	121.29			
Jalpaiguri to Siliguri	10-6-78	23.75			ł
		1		ł	
	1		145.04		1
		1		}	
Santahar-Kauma toop —					!
Santahar to Bogra	1-4-99	24.50		l	1
Bogra to Mohimaganj	5-4-00	22.02		1	1
Mohimaganj to Bonarpara	1-8-00	4 60			
Bonarpara to Kannia	1-7-05	44:47		1	(
			95.59		1
Dacca section—		1			1
Narayangani to Dacoa	4-1-85	10:12			1
Dacca to Jaydebpur	1-8-85	20.10			
Jaydebpur to Gafargaon	1-8-85	32.50			l .
Gafargaon to Mymensingh.	1-8-95	23.52	86.24		1
	1		80.38		j
		1			
ainti Branch, British Section +-	18-1-00	0.64			†This line
South bank of Kaljani river to Alipur Duar	5-4-00	9.97			was original-
Alipur Duar to Raja Bhat Khawa	1-2-01	9.18	}		y on the M
Raja Bhat Khawa to Jainti	1-2-01	9 10	19.79		6" gauge,
			10 10		hut was con-
Branches and extensions on the Main line-	1	1			verted to,
branches and extensions on the main time-	!	- 1	1		and opened
Kosi branch-	i	į.	ł		on the 3' 34"
Katihar to Kasha	1-4-87	21.75	1		gauge up te
	1-7-89	36.84	1		Raja Bhat
Kasba to Forbesganj. Forbesganj to Jogbani	15-2-09	8.60 (- 1	Khawa from
Borneskam to Jokowai			67.19		13th April
	ŀ	1	l		1916 and up
Godagari extension-	1	1	i		te Jainti
Katihar to Godagari	1-1-09	105:32		i	from lot
manual to company	1-		105.32		May 1910.
Kissengunge branch-			1	1	
Barsoi to Kissengunge	15-12-92	30:11		1	
<u>"</u> "	[-		35.11	1	
Dhubri branch-	00.000	18.73	1		
Golakganj to Dhubri	23-9 02	10.19	13.78		
	1-		19 (9]		
Total carried over	1	(896-17	

Eastern Bengal railway (8' St" gauge) -concld.

Progress in opening-concld.

Sections of railway.	Date of opening.	Miles	Total.	Grand total.	Remarks,
1	2	8 `	4	5	6
Tangla entersion— Brought forward	 1- 8 -12	24:32	**	896-17	-
Rangiya to Tangla	1-0-12	36.25	24.32		
Branch on the Santahar-Kaunia (oop— Singhjani branch— Bousrpara to Fulchhari (on the right bank of the Brahmaputra). Bahadurabad (on the loft bank of the Brahmaputra) to Singhjani. Kandirpara Ghat line	{ 1-9-00 { 18-8-12 18-8-12 6-11-14	8·25 1·00 24·92 5·54	39:71		
Branch on the Jainti Branch— Dalsingpat brunch— Raja Bhat Khawa to Kalehini Kalchini to Hasmara Hasmara to Dalsingpara	1-4-12 1-4-18 5-1-14	7:84 6:66 3:52	17:52	81.45	
GRAND TOTAL OPEN MILHAGE		[977-72	
DOUBLE LINE— Teesta Junction to Lalmonirhat	1-9-14	7.29	7:29		

Details of construction-

Permanent-way.—The permanent-way consists of 50-lb. flat-footed steel rails, O.S., N.S. and B.S., and wooden sleepers, with the following exceptions:—

Forty-one miles of the Santahar-Kaunia loop, between Nasaratpur and Bonarpara and the up and down lines between Teesta and Lalmonirbat are laid with 60-lb, flat-footed steel rails, B.S. The lines from Manihari to Katibar, Golakganj to Dhubri, and Buxa Road to Jainti and the Kandirpara Ghat line, are laid with 41\frac{1}{2}\text{-lb}. flat-footed steel rails. Nine miles of Dacca section are laid with 62-lb, double-headed and the remainder, with 62-lb, flat-footed second-hand steel rails. On the Tangla extension, the Dalsingpura branch and in certain station yards of the Dacca section the rails are second-hand 41\frac{1}{2}\text{-lb}. flat-footed.

Ballast.—The whole of the line, except the portions from Golakganj Junction to Dhubri, Forbesganj to Jogbani, Raugiya to Tangla, Raja Bhat Khawa to Dalsingpara and Singhjani to Bahadurabad and Kandirpara Ghat line, is ballasted or shortly to be ballasted. The ballast is brick, stone or shingle.

Fencing.—The whole of the 3' 3\bar{8}" gauge line is fenced, except the sections Santahar to Kaunia, Bonarpara to Fulchhari, Barsoi to Kissengunge, Forbesganj to Jogbani, Golakganj to Dhubri, the Santrabari extension, Rangiya to Tangla, Raja Bhat Khawa to Dalsingpara and Dacca to Mymensingh, the Gauhati extension and the Singhjani-Fulchhari extension. On the unfenced sections the station yards are usually fenced.

Curves .- The sharpest curve is of 575 feet radius.

Gradients.—The ruling gradient on the 3' 33" gauge section is 1 in 200 which occurs at the approaches of large bridges and fairly frequently and for long lengths on the Gauhati extension where there are also short lengths of 1 in 100 and 1 in 128 between Pandu station and Gauhati. On the Santrabari extension and on the section from Raja Bhat Khawa to Kalchini the ruling gradients on the last few miles near the hills are 1 in 100, and 1 in 150, respectively, but there is a small length of 1 in 50 between Buxa Road and Jainti.

Contracts-

Nil. -The line is owned and worked by the State.

Statistics of working .--

Included with the Eastern Bengal Railway (5' 6" gauge).

Eastern Bengal raikway (2' 6" gauge)-

The Ranaghat-Krishnagar branch has been amalgamated with the Eastern Bengal railway system from 1st July 1904. The Teesta-Kurigram branch was originally a portion of the 2' 6" gauge lines from Teesta Junction to Mogalhat and Jatrapur, known as the Kaunia-Dharlla branch. The line from Teesta Junction to Mogalhat has been converted to the 3' 38" gauge and now forms part of the "Kaunia-Dhubri section." The line from Kurigram to Jatrapur has been abandoned.

Eastern Bengal railway (2' 6" gauge) - concld.

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.
1	2	3	4
Ranaghat-Krishnagar branch— Aistala Ghat (right bank of the Churni rivor) near Banaghat to Krishnagar Testa-Kiriyurun branch— Testa-Kuriyurun branch— Testa Junction to Kurigram	5-4-99 19-7-81	20·25 14·85	
Total			85·10

Details of construction-

Permanent-way. -On the Ranaghat-Krishnagar and Teesta-Kurigram branches the rails are flat-footed steel, 25 lbs. per yard; the sleepers are pynkado and sal.

Ballast. - The Ranaghat-Krishnagar branch is brick ballasted and the Teesta-Kurigram branch is not ballasted.

Pencing.—No lines on the 2' 6" gauge are fenced. Curves.—The sharpest curve is of 500 feet radius.

Gradients.—The ruling gradient on the Tresta-Kurigram and Ranaghat-Krishnagar branches is 1 in 200. except on a short length on the Teesta-Kurigram line where it is 1 in 100.

Nil.-The line is owned and worked by the State.

Statistics of working.-

Included with the Eastern Bengal Railway (5' 6" gauge).

Cooch Behar State railway (3' 33" gauge)-

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.	Remarks.
1	2	3	4	8
Gitaldaha to Manshahi River Manshahi Biver to the town of Cooch Behar Torsa Bridge	15-9-93 15-12-98 16-5-00	18·31 3·22 0·11		This line was originally on the 2'6 gauge, but was converted to, and opened on, the 3'3!" gauge up to Ococh Behar from 14th February
Cooch Behar to temporary Alipur Duar (Kholta)	15-4-99	10.96		1910 and up to the end of th
Temporary Alipur Duar (Kholta) to the South Bank of the Kaljani river.	18-1-00	0.49		Cooch Behar State section from 13t April 1910.
TOTAL			33-09	

Details of construction-

Permanent-way. - The permanent-way consists of flat-footed steel rails, 411 lbs. per yard, laid on sall sleepers.

Ballast .- The line is ballasted with shingle.

Fencing,-The line is unfenced.

Curves .- The sharpest curve is of 1,300 feet radius.

Gradients .- The ruling gradient is 1 in 100.

Dated the 25th February 1907, having effect from the 1st January 1907, between the Secretary of State and His Highness the Maharaja of Cooch Behar, as to the management, maintenance and working of the Cooch Behar State railway by the Eastern Bengal railway.

Main provisions of agreement-

- The railway is the property of the Cooch Behar Durbar, which provides all funds not contemplated in clause 2 of the agreement required for the (i) Land .--(ii) Government aid .completion and equipment of the line from time to time, and is managed, maintained and worked by the agency of the Eastern Bengal railway.
- (iv) Distribution of profits.— } For management, maintenance and working, the Eastern Bengal railway

 (iv) Distribution of profits.— } retains 40 per cent of the gross earnings: provided that when the

 stock of the Eastern Bengal railway is used for the conveyance of any truffic on the Cooch Behar

 State railway, the Eastern Bengal railway retains up to, but not exceeding, 45 per cent of the

 gross earnings obtained from the use of such stock. The remainder, being the net earnings of

 the Reach is raid over the Durber. the Branch, is paid over to the Durbar.
- (v) Rates and fares.—The Administration of the Eastern Bengal railway has full control over the rates and fares on the Cooch Behar State railway, subject to the maxima and minima prescribed by The Government of India in schedule A appended to the agreement (certain station to station rates applicable after the opening of the Dharlla bridge are prescribed in schedule B to the agreement).

Cooch Behar State railway (3' 33" gauge) -concld.

Main provisions of agreement-concld.

- (vi) Special obligations as to the conveyance of -
 - (a) Mails, troops, police, high Government officials and Government stores .- Mails are conveyed in accordance with rules in force on State railways. There is no special provision in the agreement for the carriage of troops, high Government officials and Government stores.
 - (b) Government bullion and coin, and the persons in charge thereof .- Not specified.
- (viii) Power of the Cooch Behar Durbar to determine agreement.—

 Terminable on the expiry of months' position from the expiration from the
- (ix) Term of agreement .- Until determined under (vii) and (viii).

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

,	Yea	ır.	Milengo open at end of each year.	Total capital ontlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net expaines.	Percentage of not cara- ings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.	Remarks.
	1		. 2	3	4	5	6	7	8	9
			Miles.	Rs.	Rs.	lts.		Rs.		_
1908 1909 1910		:	33:60 33:27	15,17,033 17,71,553 20,45,637	1,96,254 1,01,077 2,03,510	1,14,833 1,39,144 1,08,039	7:57 7:85 5:28	112 109 118	41:48 *27:17 †46:91	*The decrease in 1909 was chiefly due to the cost of repairs to da-
1911 1912		:	33:09 33:09	19,08,477 19,30,869	2,61,711 2,71,097	1.18,360 1,46,019	6·20 7·56	152 157	45:23 46:13	mages caused by floods in 1906, which were or- iginally debited to Re- venue in 1906 and 1907.
of : 1913- 1914-1	191: 14	qr. 3. :	33.09 33.09 33.09	19,49,595 *0,22,791 20,50,061	77,277 3,00,374 2,69,264	41,5 6 2 1,63 868 1,41,749	8·52 8·05 6·91	180 175 156	46:31 45:46 47:36	having been written back to capital in 1909. † The increase is due chiefly to the debit to
1915-1 1916-1 1917-1	7	:	33.09 33.09 33.09	19,59,896 19,61,8, 5 19,76,641	2,63 424 2,86,152 2,69,878	1,40,785 155,257 1,39,817	7·18 7·91 7·07	158 866 157	46:57 45:74 48:19	Revenue of the cost of repairs to flood dama- ges.

Mymensingh-Jamalpur-Jagannathganj railway (3' 33" gauge)-

Date of registration of the Company .- 9th June 1899.

This line, which terminates on the Brahmaputra river, is cooned ed with the Eastern section of the Eastern Bengal railway at Goalundo by the India General Navigation and Railway and River Steam Navigation Companies' steamer services. The new Singhjani-Fulchhari extension, starting at Singhjani, a station on this line, links it with the Northern section of the Eastern Bengal railway at Fulchhari.

Progress in opening -

Sections of railway.										Date of opening.	Miles.	Total.			
			1										2	3	4
Mymensingh to Singhjani Singhjani to Jagannathganj	:	:	:	:	:	:	:	:	:	:	:	:	15-10-98 22-10-99	33·32 22·78	
								Тот	'A L						56.05

Details of construction-

Permanent-way. - The permanent-way consists of 50-lb. flat-footed steel rails, O.S., laid on sal sleepers. Ballast .- The line is ballasted throughout with brick.

Fencing.—The line is fenced only at stations and through the town of Mymensingh.

Curves .- The sharpest curve is of 2,685 feet radius.

Gradients .- The ruling gradient is 1 in 300.

reements and contract-

Agreement, dated the 6th January 1897 (called the preliminary agreement). Aurigation Company (called the Old Company), as to the contract, dated the 6th January 1897 (called the scheduled contract) Mymensingh-Jamalpur-Jaganuathganj branch railway.

Mymensingh Jamalpur-Jagannathganj railway (3' 33" gauge) -concid.

Agreements and contract—concid.

Agreements, dated the 3rd October 1899, (supplemental to the preliminary agreement and scheduled contract of 1897), between the India General Steam Navigation Company (called the Old Company) and Messrs. W. II. Cheetham, C. C. Kilburn, and A. Pointon, merchants, the liquidators thereof, the India General Navigation and Railway Company (called the New Company), and the Secretary of State, as to the substitution, as from the 1st July 1899, of the New Company for the Old Company as a party to the preliminary agreement and the scheduled contract, respectively, and for the transfer of the domicile of the Mymensingh-Jamalpur-Jagannathganj branch railway Head Office from Calculta to London.

Main provisions of agreements and contract-

(i) Land .- Provided by the Government free of cost to the Company.

(ii) Government aid.—For the more convenient and economical construction of the railway its execution was undertaken by the Government, who also stock, manage, maintain and work it through the agency of the Eastern Bengal railway. The Government agree to allow to the Company, in respect of each calendar year, by way of rebate, such a sum not exceeding in any year the netearnings from traffic interchanged between the Eastern Bengal railway system and the Company's railway only, as shall together with the Company's net carnings for the year, make up 3½ per cent, per annum, on the actual capital expenditure on the branch. (Mymensingh is to be considered a station on the Eastern Bengal railway system, and cross traffic passing over the Company's line when booked through between stations on the Dacca-Mymensingh section and other stations on the Eastern Bengal railway is not to be taken into account in calculating rebate).

(iii) Terms of working.—
 for management, maintenance, working and the use of rolling-stock
 (iv) Distribution of profits.—
 for management, maintenance, working and the use of rolling-stock
 (iv) Distribution of profits.—
 for management, maintenance, working and the use of rolling-stock
 (iv) Distribution of profits.—
 for management, maintenance, working and the use of rolling-stock
 (iv) Distribution of profits.—
 for management, maintenance, working and the use of rolling-stock
 (iv) Distribution of profits.—
 for management, maintenance, working and the use of rolling-stock
 (iv) Distribution of profits.—
 (iv) Distribution of profits.

(v) Rates and fares.—To be arranged between the Government and the working agency, subject to the condition that they are to be within the maxima and minima, and that the classification of goods is to be in conformity with that in force on the Eastern Bengal railway.

(vi) Special obligations as to the conveyance of .-

(a) Mails, troops, police, high Government officials and Government stores.—
 (b) Government bullion and coin, and the persons in charge thereof.—

- (vii) Power of the Government to determine contract,—Government may determine the contract on 12 months' notice either on—
 - (a) the 31st December 1919, or at the end of any subsequent period of 10 years, in which case the Government undertake to pay to the Company in rupees a sum equal to 25 times the amount of the average yearly not earnings, not including rebate payments, derived by the Company from the branch railway during the three years immediately preceding the time at which the contract is determined, provided that such sum shall not exceed by more than 20 per cent, the total capital expenditure of the Company, nor be less than such total capital expenditure; or

(b) on the 31st December 1948, in which case the Government undertake to pay to the Company a sum equal to the total capital expenditure in rupees.

(viii) Power of the Company to surrender contract .- Nil.

(ix) Term of contract. - Until determined under (vii).

Statistics of working-

	1					Ke-					
Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Not- earn- ings.	Percentage of net carn- ings on total capital outlay given in column (3).	bate from the East- ern Ben- gal rail- way.	Total income.	Percent- age of total income on total capital outlay given in column (3).	Earn- ings per mile per week.	Proportion of expenses to earnings.	Rеманке.
1	2	3	4	5	1 0	7_	8	9	10	11	12
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.		Rs.		
1898 .	33.07	10.44.638	7,660	4,213	0.10		4,213	0.40	27	45.00	* The increase
1899	53.37	16,11,218	66,499	36,575	2.27		36,575	2.27	35	45'04	is due to the
1900	53.37	18,78,395	1,62,028	89,116	4.74		89,116	4:74	58	45.00	expenditure
	100	11,10,00	1,02,11	,			'	1		10	incurred on
1901 .	53.37	20,84,346	1,67,756	92,265	4.13		92,265	4.43	60	45'(0	terminals
1902	53.14	22,85,677	2,05,251	1,12,888	4.94		1,12,888	4.94	71	45.00	at Jagan-
1908	52.70	23,28,917	2,22,825	1,19,573	5:13		1,19,573	5.13	82	*46.34	nathganj.
1904	51*37	28,51,113	2,21,168	1,18,386	5.03		1,18,336	5.03	81		†The increase
1905 .	50. 6 9	23,86,029	2,16,642	1,18,748	1.98		1,18,748	1.88	81	*45.19	is due to
			l			i					the expen-
1906 .	53.22	24,15,218	2,72,929	1,50,030	6·21 7:50	• • •	1,50,030	6·21 7·50	103	45 03	diture in-
1907 1908	53.90	24.34,018		1,82,402	8.86		1,82,402 2,17,176		102	15.00	entred on
	53.91	24,50,870	3.94,866	2,17,176	8:43	•••	2,09,504		141 134	45.00	diverting
1909 1910	54.55	24,84,174	3,80,917	2.09,504	8:22	***	2,08,025		134		about 4
1910 .	55.21	25,31,451	3,78,228	2,08,025) 022		2,00,020	0 22	100	45 00	miles of
1911 .	55.22	25.72.135	3.96.262	2.17.944	8.47		2,17,944	8:47	137	45:00	near Bidva
1912	55.22	26,27,077	8,96,790	2,18,235	8.31		2,18,235		138	45 CU	
	00 22	20,21,011	0,00,.00	2,10,200		1	2,.0,000	1	1.10	35.00	The decrease
let qr.	I	1	1	Į		1	1	1			is due to the
of 1913.	55.22	26,46,049	99.227	54,575	2.06		54,575		138	45'(0	write-back
1018-14.	55.23	26.89,250		2.57.198	9.74		2,57,198	9.74	178	+49.70	of expendi-
1914-15.	55.22	26,53,778	5,12,412	3,05,846	11.20		3,05,816	11.20	178	140'81	ture refer-
	1	1				1		Į.		4	red to in
	l				1	1	1	1	i		the remark
1915-16.	53 66	26,67,078		3,02,739	11.35		8,02,739		197	45:00	marked t.
1916-17	56.53	26,75,964		3,46,840	12.96		3, 6,810	12.96	216	45.00	
1917-18	56 05	26,79,585	6,39,160	3.51,538	13 12		8,51, 5 38	13.12	219	45.00	l

Khulna-Bagirhaut railway (2' 6" gauge)-

Date of registration of the Company-1916.

The construction of this line by the Bastern Bengal railway on behalf of a Branch Line Company was sanctioned in Railway Board's Notification No. 448-P., dated the 9th March 1916.

Progress in opening-

Scotton of zailway.	Date of opening.	Milon.	Total.		
1	2	3	4		
Khulna to Bagirhaut (sanctimed on 9th March 1916)		1 9:6 6	19:66		

EAST INDIAN RAILWAY SYSTEM.

Chairman .- Lieut .- Col. Richard Gardiner.

Secretary .- Charles W. Young, Esq.

Offices .- 28-30, Nicholas Lane, London, E. C.

Date of registration of the old guaranteed company .- 1849.

Lines comprised in the system .- The East Indian railway system is made up of-

						Open line.	Under construction or sanctioned for construction.	Total
						Miles.	Miles.	Miles.
(a) East Indian railway (5' 6" gauge)						2,463.77	7.93	2,471.70
(b) Delhi-Umballa-Kalka railway (5' 6" gauge)						206:40		206:40
(c) Jind-Panipat railway (Native State Section) (5'	6")					25'90		25.80
(d) South Bihar railway (5' 6" gauge)			•	•	•	79.19		79-19
		Tot	a.l			2,775-26	7.93	2,788:19
Running powers—								
Home line over Foreign lines:— Agra Fort to Junua Bridge, Bombay, Baroda an Nailaati to Majherhat, Eastern Bengal railway, Moghal Sarai to Benares Cantonnent, Oudh au Agra City to Agra Cautonment, Great Indian Pe Jind City to Jind Junetien, Southern Punjab rail	for ad F nins	g>od tohil ula 1	khar ailw	uns o dra ay, f	nly ilwa or go	y, for certain	passenger trains only	36.88
manda transition it							Total .	51.20
Foreign lines over Home line: -							•	

Bengal Nugpur railway at Katan | for passenger and goods trains | in the Katan |

Total 19.82

East Indian railway (5' 6" gauge)-

The lines owned by the late East Indian Guaranteed Railway Company were purchased by the State in 1879, and all the contracts then subsisting between the Secretary of State and the company (except those relating to debentures or delenture stock) were determined. The purchase price was £32,750,000, and it was provided that this should be paid in the form of a terminable annuity of the amount of £1,473,750, payable from the 1st January 1880 to the 14th February 1953. One-fifth of the annuity was deferred, and the holders of this portion (representing a capital sum of £6,550,000) constitute the present East Indian Railway Company. Since the purchase certain State and Companies' branch lines were incorporated in the undertaking

Progress in opening-

Sections of rail	way.							Date of opening.	Miles.	Total.	Grand total
1								2	3	4	5
ain line											
Howrah to Hooghly								15-8-54	23.38		i
Hooghly to Pundooah								1-9-54	14 31		Į.
Pundoosh to Khana Junction .								3-2-55	36.85		
Khana Junction to Ranceguage								3-2-55	45.71		
Rancegunge to Sigrsol (near Asan 30	1) .							21-7-63	1.70		
Siarsol (near Asansol) to Sitarampa	r .							1-1-65	15:15		1
Sitarampur to Luckeeserai Junction	ı .							1-1-71	124.59		l .
Luckeeserai to Dinapore								17-11-62	85.45		
Dinapore to Moghal Sarai								22-12-62	125.57		
Moghal Sarai to Mirzapur			-					1-1-64	39.28		i
Mirzapur to South Bank, Junna .								4-4-64	52.95		
Jumna Bridge to Allahabad						- 1		1 5-8-65	2.70		1
Allahabad to Cawnpore					-			3-3-59	119.47		1
Campore to Etawah	•	•		•	•	•	•	1.7.61	86:46		!
Etawah to Shikohabad		•	-	•	•		•	13-11-61	34:39		
Shikohabad to Tundla Junction .	•	:	•		•	•	•	1-4-62	2292		
Tundla Junction to Aligarh	•		•		•		•	1-3-63	48:56		1
Aligarh to Chola (Bulandshahr Roa	.1,	•	•	•		•	•	1-4-64	85.24		i
Chola to Delhi (South Bank, Jumna				•		•	•	1-8-64	4129		i
Delhi Terminus		•	•	•	•	•	• 1	1-1-67	1.78		ł
Detail Terminus		•	•	•	•	•	• [1-1-07	1 10	954.92	1
op line-									1	-04 -2	
Khana Junction to River Adjai .								3 - 10 - 58	19:00		1
River Adjai to Sainthia								3-9-59	25.12		i
Sainthia to Tinpahar						- 1		15-10-60	76:12		ł
Tinpahar to Bhagalpur .						- 1	- 1	1-11-61	69-15		1
Bhagalpur to Jamalpur .					•	•	- 1	10.2.62	33'03		i
Jamalpur to Kiul						•	- 11	17-11-62	28.00		1
	•			•	•	•	• •	41-11-02	20 00	250.42	1
							1			200 85	4
				Car	ried (0 7 0r	. 1				205-84

EAST INDIAN RAILWAY SYSTEM-contd.

East Indian railway (5' 6" gauge)-contd.

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	BEWARES.
1	2	3	4	5	6
Brought forward .			***	1,205-84	
Grand Chord— Sitarampur to Barakar	1-1-65	5.43			1
Barakar to Dhanbaid Dhanbaid to Paharpur	20-5-94 6-12-06	25·75 103·69			1
Paharpur to Manpur	15-8-06	17.42		1	1
Gya to Moghal Sarai	1-3-09	126.11	278:40		1
lowrah-Burdwan Chord-	1-1-17	45:26		ļ	
A point 6 miles from Howrsh to Saktighar .	-1-1.		45.26		
Branches on the Main line— Tarkessur branch*—	ľ	}		1	*This line was co
Sheoraphuli to Tarkessur	1-1-85	22-21	22.21		I structed by the Te
	ľ		82-21		kessur Railway Con pany and worked k the East Indian Rai
Bhadreswar branch— Bhadreswar Junction to the river bank.	6-12-52	2:60		1	the East Indian Rai
	0-12-02		2.60	1	an agreement, up
laihati branch — Bandel Junction to Naihati	15-3-87	4:47		1	way Company, under an agreement, up the 31st December 1914. It was acqui
	10.0.0.		4:47		
Bandel Barharica branch— Bandel Junction to Nabadwip	1-4-12	40:50		1	incorporated withe East Indis railway on the 1 January 1915.
Nabadwip to Katwa	15-5-12	24:31			railway on the 1
Katwa to Jangipur Road Jangipur Boad to Dhulian Ganges	1-5-13 31-1-13	65:91 17:24	•		January 1915.
Dhulian Ganges to Barharwa	19-1-11	18:32	166:28		
Ondal-Sainthia Chord-	[166'28		
Ondal to Sainthia	10-12-06	48.91	43.91		1
Ondal loop-	1		40 81		j
Ondal to Baboisole Baboisole to Mangalpur	1-5-64* 1-1-63	2·63 2·74			
Mangalpur to Toposi Toposi to Ikrah Junction	2-2-63	2.65			
Toposi to Ikrah Junction	15-4-94 1-6-95	2.42 14:16			ì
Gaurangdi to Rupnarainpur	30-3-95	7.54			
Toposi-Barabani Chord-	-		81:54		
Toposi-Barabani Chord — Toposi to mile 3.79 Mile 3.79 to mile 6.50 towards Barabani	15-6-08 19-4-15	3·79 2·71			
Mile 379 to mile 550 towards Barabani . /			6.20		†This line was cor structed on the 3' 34
Ikrah Jungtion to Barabani	15-4-94 15-4-02	8·40 6·98			gauge and worker
Barabani to Siturampur	15-4-02	0.78	15.38		gauge and worked by Messrs, Burn an
8alanpur branch-	7-9-94	4-29			Co. of Calcutta up t the 80th June 1911 It was acquired b
Salanpur to Shamdi	1-1-97	1.24			It was acquired b
Giridih branch -	-		5.23		the State and incorporated with the East Indian railwa
Madhupur Junction to Giridih	1-1-71	26:70	00.70		East Indian railway on the 1st July 191
Deoghur branch†-	Į-		26.70		and converted to the
Jasidih Junction to Baidyanathdham	23-12-82	4.12	4:12		5' 6" gauge on the 13th September 1918
Mokameh Ghat branch-	Г		412		
Tal Junction, via Mokameh Ghat, to Mokameh Junction.	1-5-83	2.68	2 98		This line was con structed by the State
	1		2 90		and worked by the agency up to 188
Patna Ghat branch— Patna to Patna Ghat	17-11-62	0.87			It was made over t
i			0.87		
Patna-Gya brancht— Bankipore Junction to Bankipore	2-6-79	0.25			way Company to b worked, under a agreement, on th lat January 188
Bankipore to Jehanabad	21-4-79	28.95	İ		agreement, on th
Jehanabad to Gya	2-6-79	28:48	57.68		
Digha Ghat branch— Bankipore Junction to Digha Ghat	2 4 85	5.53	-		with the East India
		333	5.23		railway on the la July 1892.
Tari Ghat branchs— Dildarnagar Junction to Tari Ghat	5-10-80	12:00			This line is the ol
	J-10-00 -		12.00		Dildarnagar-Ghasipu State railway which
Benares chord— Dihwa Block hut to Beelupur (Oudh and	14-5-10	1.18			was incorporate
Rohilkhand railway).			1.18		with the East India
Jubbulpore branch— Naini Junction to Jubbulpore	_ [railway on the 1s Junuary 1889.
Naini Junction to Jubbulpore	1-8-67	224.49	224-49	957:63	
/ /	1			-01 00	
	1				
	1	1	1		
	- 1	1			
	l	i		Y	
· · ·	i	- 1	l		
Carried over .	[•••	l	2,162.97	

EAST INDIAN BAILWAY SYSTEM-contd.

East Indian railway (5' 6" gauge)-contd.

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	REMARKS.
1	2	8	4	5	6
Brought forward .				2,162-97	
Allahabad Fort branch	3-3-59	2 33			
Caunpore city branch	15-2-79	0.88	- 2·33 - 0·88		
Shikohabad Farukhabad branch— Shikohabad to Mainpuri Mainpuri to Bhongaon Bhongaon to Farukhabad	1-3-05 17-8-05 1-1-06	29·71 8·63 27·61			:
Agra branch— Tundla Junction to Junua bridge. Junna bridge to Agra city (Agra direct access.)	1-4-62 15-10-07	18:35 1:64	65.95		
Hathras branch— Hathras Junction to Hathras Kilah	1-11-98	5.58	5.28		1 1 2 4
Hapur branch— Khurja to Bulandshahr	7-2- 07 15-1-07	14·00 24·81	39.81		
Branches on the toop line— Asimganj branch—* Nalhati to Azimganj	21-12-63	27:23		!	*This line was con- structed by the
Rajmehal branch— Tinpahar Junction to Rajmehal	15-10-60	7:00	27.23		(afterwards Oudh
Bakrigali branch— Sakrigali Junction to the river Ganges	1-1-94	1-26	7.00		Railway Company as a 4' gauge line. It was purchased by
Mirza Chowki branch— Mirza Chowki to the river side	1-3-09	0.50			March 1872, incorporated with the East
Sultangunge Ghat branch— Sultangunge Junction to Sultangunge Ghat .	6-5-95	1.10	0.20		the State on the 31st March 1872, incorporated with the East Indian milway on the 1st April 1892 and opened on the 5' 6" gauge on the 15th July 1892.
Monghyr branch — Jamalpur Junction to Monghyr	10-4-62	5.68	1.16	!	15th July 1892.
Branches on the Grand Chord— Chanch branch— Chanch block hut to mile 197:30	1-2-93 5-8-96	2.88 1.00	3 68		
Pandra branch— Pandra block but to mile 151'41	26-11-00	2.66	3.88		
Pradhankhunta-Pathardihi Chord- Pradhankhunta to Pathardihi	1-1-13	9:59	2.8€		
Katras branch— Dhanbaid to Katrasgarh	20-5-94	9:11	9.59		,
Damuda branch— Kasunda to Jharia	30-6-95	4.60	9:11		
Jharia to Pathardihi	30-6-95 15-7-96	8:40 1:77	9.77		
Jharia branch— Dhanbaid to Jharia	1-5-08	3.75	3.75		
Kasunda Tetulmari link— Kasunda to Tetulmari (including portion of Chandur branch).	20-4-07 } 6-12- 0 6 }	3·15			
Katras-Khanoodih extension— Katrasgurh to Khanoodih	7-3-03	7:17	3.15		
Jamuniatand link— Kanoodih extension mile 182:58 to mile 184:55 on the Bokharo Colliery joint line.	1 1-10-1 6	1.97	7·17 1·97		
Katras-Mulkera cross connection— Northern half of connection	15-8-0 3	0.68	13/		
Barun-Daltonganj branch—			0.66		
Sone East Bank (Barun) to Rajhara	3-5-02 15-1 2 -02	67:80 10:72	78:02		
				800-80	
TOTAL OPEN MILEAGE CARBIED OVER			 .	2,468.77	

EAST INDIAN RAILWAY SYSTEM -contd.

East Indian railway (5' 6" gauge)-contd.

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	BREARS.
1	2	8	4	5	6
Brought forward	1			2,469.77	
Under construction of sanctioned for construction-					
Toposi-Barahoni chord— 6:50 miles from Toposi to Barahoni (sanc tioned ou 28th May 1913). Allahabad Fort branch—		3.70	-		
Extension to Daraganj (sanctioned on 23rd November 1914).		1.85			1
Dhanbad to Katrasgarh and beyond (sanctions on 25th March 1918).	d	2.38	7:93		İ
GRAND TOTAL				7·93 2,471·70	
SEXTUPLE LINE-	' "			2,341 10	1
Howrah station to Bengal-Nagpur railway Junction cabin	1-1-08	0.82	0.82	0.85	
QUINTUPLE LINE— Lillocah to Bally	1-1-17	2.24	2.84	2.24	l
Bengal-Nagpur Railway Junction cabin to	1-1-07	2:08		2 24	1
Serampore to Sheoraphuli Saktighar to Burdwan	26-6-13 1-1-17	1·50 7·91			
TRIPLE LINE-	1-1-17	181	11:49	11:49	
Bally to Uttarpara	1-10-15 3-6-12	0.88 6.02		11 49	
Sheoraphuli to Baidyabati	18-9-18	0.87			
Debipur to Boinchee	17·4·16 1-1-08	2·71 2·62			
Bancogunge to Asansel	22-7-07	11.12	24.23		1
On the main time— Bally to Uttarpara	10-3-57	*0.55		24.23	
Sheoraphuli to Chandernagore Chandernagore to Hooghly Hooghly to Magra	1-2-58 1-5-58 1-10-58	*2:56 3:04 5:49			*Excluding the triple length.
Magra to Pundoosh	25-2-59	8.82			
Pundooah to Saktighar Burdwan to Khana Khana to Durgapur	1-10-59 1-1-59 1-6-70	*18·16 8·16 31·35		i i	
Durgapur to Raneogunge	2-9-70	14:36 *5:45		İ	
Rancegunge to Sitarampur Sitarampur to Luckeeserai Luckeeserai to Burhee	19-12-70 1-1-71 22-6-60	124·59 9·82			
Burhes to Barh	22-2-68	27.10			
Barh to Futwah Futwah to Dinapore Dinapore to Bihta	11-1-68 20-3-67 13-8-68	25.87 19.68 10.84			
TOTAL A. America	28-3-70	13.64	1		
Arrah to Buxar Buxar to Dildarnagar	13-8-68 15-4-82	42.63 22.47			
Buxar to Dildarnagar Dildarnagar to Zamania	20-5-82	8.42			
Zamania to Sakaldiha Sakaldiha to Moghal Sarai Moghal Sarai to Ahraura Road	20-9-82 10-8-82 10-8-07	16·17 11·40			
Moghal Sarai to Ahraura Road Ahraura Road to Kylahat	10-8-07 8-12-08	7:92 4:95			
Kylahat to Chunar	29-12-08	5.22			
Chunar to Dagmagpur	19-2-09 27-2-09	4·91 4·91			
Pahara to Jhingura	16-1-08	4.61			
Jhingura to Mirzapur	6-8-07 6-7-11 12-7-11	6·76 4·56			
Birche to Gaipura	12-7-11 26-9-11	2·91 4·64			
Quinage to ligns	10-10-11	4:34			
Mandah Road to Unchdih	16-11-11 30-11-11	5·24 5·07			
Unchdih to Meja Road	23-11-11	5.19			
eia Read to Tonse bridge	26-10-11 10-4-11 9-4-11	8·24 8·58			
Bheerpur to Karchana	9-4-11 6-8-09	5·74 5·70			
Carried over .		•••	520-01		

EAST INDIAN RAILWAY SYSTEM-contd.

East Indian railway (5' 6" gauge) -contd.

Progress in opening-concld.

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	REMARKS.
1	2	3	4	5	6
Brought forward .	•••		520.01		
OUBLE LINE-concld.		1.00			
Chheoki to Naini	31-1-07 (15-1-06	1.08			
Naini to Allahabad	4-10-13	0.60			
Allahabad to Subadargunge	27-1-09	3.20			
Ghaziabad to Shahdara	20-2-02	8.13			
Shahdara to east side of Jumna bridge near Delhi	1-7-62	2.57			
East side of Jumna bridge to Delhi	6-3-13	3.24			
On the branches of the main line-	-		22.88		
	15-8-87)	4.45			
Nalhati branch	1.7-04	4:47			
On the Grand Chord-	6-3-01	F.40	4:47		
Sitarampur to Barakar	29-9-03	5 43 3 78			
Chanch to Mugma	29-1-06	3.16		1	
mugma to rutas					
Futka to Kaloobathan	17-1-06	2.29			
Kalcobathan to Chhota Ambona	21-3-06	5.79			
Chhota Ambona to Pradhankhunta	17-10-05 20-8-06)	3.68			
Pradhankhunta to Dhanbad	1-7-06	5.01			
Guihandi to Gurpa	11-3-07	13.62		1	
Con to Kautha	30-4-14	4.93			
Ganj Khwaja to Moghal Sarai	4-5-14	3.11	51.13		
On the branches of the Grand Chord—			91 13		
Portion of Jharia branch	1-1-04 26-9-12	0·17 1·45			
Lodna to Pathardihi	1-1-13	0.45			
			2.07		
On the Howrah Burdwan chord-		42.00	45.26		
A point 6 miles from Howrah to Saktighar .	1-1-17	45 26	45 20		
GRAND TOTAL, DOUBLE LINE .				645 82	

Details of construction-

Permanent-way.—The main line from Howrah to Delhi, including Howrah-Burdwan chord, the Grand Chord, the Loop line from Khana Junction to Kiul, the Jubbulpore branch, Tarkessur branch, Jharia branch, Ondal loop, Ikrah branch, Grirdih branch, Patna-Gya branch, Barun-Daltonganj branch, Agra branch, Shikohabad-Farukhabad and Bandel-Barharwa branches are laid with steel rails throughout. A few short branches are still laid with iron rails, but these are being replaced with second-hand steel rails removed from the main line in the course of relaying operations.

On both the up and down roads of the main line from Howrah to Allahabad, a distance of about 564 miles, the rails are 85-lb. bull-headed with the exception of a few lengths aggregating 310 miles laid with 88½-lb. bull-headed rails, and 2 short lengths of about 2 miles laid with 75-lb. double-headed rails.

Above Allahabad the main line up to Fatehpur (mile 636) is laid with 85-lb. bull-headed rails. The sections Fatehpur to Kanchausi (about 90 miles), Tundla to Barhan (6 miles) and Khurja to Patpore (about 50 miles) are laid with 88½-lb. bull-headed rails. The rest of the main line and branches are laid with 75-lb. double-headed rails.

The Grand Chord line is laid with S5-lb. rails, between Sitarampore and Gurpa, and with S8½-lb. bull-headed rails, between Gurpa and mile 389, near Sone East Bank (excepting a length of 5 miles) and between mile 375 (near Pusauli) and Moghal Sarai and on the newly opened down track between Gya and Kastha and Ganj Khwaja and Moghal Sarai. The remaining length is laid with 75-lb, double-headed rails.

Of the Howrah-Burdwan chord, the Bally-Manirampur and Jangram-Saktighar sections are laid with 90-lb. flat-footed, and the rest with 884 lb. bull-headed, rails.

The Deoghur and Tarkessur branches are laid with 75-lb double-headed rails and the Noihati branch with 884 lb, bull-headed rails.

As at present laid, about thirty per bent of the sleepers are wooden and the remainder iron. The wooden sleepers principally consist of sål and deodar; but of late jarrah and Australian hard wood sleepers have also been put into the road. The chairs are east iron and vary in weight from 36 to 51½ lbs. The iron sleepers are of the Denham-Olpherts' pattern and weigh about 252 lbs. each.

Ballast.—The line, with the exception of the Howrah-Burdwan chord and the Barharwa-Bandel branch, is ballasted throughout with stone.

Fencing.—The line is fenced throughout, except on the Damoodur, Ikrah, Salanpur, Chanch, Pandra, Azimganj, Barun-Daltonganj, Shikohabad-Farukhabad, Barharwa-Bandel and Deoghur branches, the Ondal loop and the Ondal-Sainthia and Dhanbad-Jharia chords.

Curves.—The sharpest curve is of 1,000 feet radius and situate between Agra (Jumna Bridge station) and Agra City station.

EAST INDIAN RAILWAY SYSTEM-ontd.

East Indian railway (5' 6' gauge) -contd.

Details of construction -concld.

Gradients.—The ruling gradient on the main line is 1 in 300, except between Raneeguings and Luckeeserai where it is 1 in 200 with a 1 in 100 banking section, between Simultala and Jhajha, and on the Grand Chord, 1 in 200 (compensated on curves), with a 1 in 80 banking section between Gurpa and Gujhandi. The ruling gradient on the Tarkessur branch, is 1 in 500, on the Howrah-Burdwan chord and the Shikohabad-Farukhabad branch 1 in 400, on the Daltonganj branch, 1 in 333, on the Patna-Gya and Digha Ghat branches, 1 in 250. On the Bandel-Barharws branch, the Loop line, the Monghyr branch, the Ondal-Sainthia chord, the Khurja-Hapur branch and the Jubbulpore branch, it is 1 in 200; on the Azimganj branch, 1 in 100, and on the Deoghur branch 1 in 50.

Contracts and agreement-

- Contract, dated the 22nd December 1879 (called the principal contract) between the Secretary of State and the East Indian Railway Company, as to the maintenance, management and working of the undertaking.
- Agreement, dated the 27th July 1882, between the Secretary of State and the East Indian Railway Company, as to the working of the Kurhurbarce and Serampore collieries.
- Contract, dated the 10th November 1893 (supplemental to the contract of 1879), between the Secretary of State and the East Indian Railway Company, as to the incorporation in the undertaking of certain State branch lines.
- Contract, dated the 26th February 1896 (supplemental to the contract of 1879), between the Secretary of State and the East Indian Railway Company, as to the raising of capital by debentures.
- Contract, dated the 22nd November 1897 (supplemental to the contracts of 1879 and 1896), between the Secretary of State and the East Indian Railway Company, as to the construction and working of the Moghal Sarai-Gya railway.
- Contract, dated the 4th April 1899 (supplemental to the contract of 1879), between the Secretary of State and the East Indian Railway Company, as to the creation of debenture stock.
- Contract, dated the 14th November 1899 (modifying the contract of the 22nd December 1879 as supplemented by the contracts of 1896 and 1899), between the Secretary of State and the East Indian Railway Company.
- Contract, dated the 16th April 1903 (supplemental to the contracts of 1899, and to those of 1879, 1896 and 1899 therein referred to), between the Secretary of State and the East Indian Railway Company, as to the adoption of 1s. 4d. per rupee as the "prescribed" rate of exchange.
- Contract, dated the 10th July 1907 (supplemental to the contracts of 1879, 1899 and 1903), between the Secretary of State and the East Indian Railway Company, as to the creation of a 3½ per cent Debenture stock.
- Contract, dated the 25th October 1911, between the Secretary of State, the Deoghur Railway Company and the East Indian Railway Company, as to the transfer to the Secretary of State of the Deoghur railway and its management, maintenance and working by the East Indian Railway Company as a part of the undertaking.
- Contract, dated the 10th June 1914, between the Secretary of State and the East Indian Railway Company, as to the adoption of the Government Financial year for the preparation of accounts.
- Contract, dated the 3rd May 1915, between the Secretary of State and the East Indian Railway Company, as to the creation of 41 per cent. Debenture Stock.

Main provisions of contracts and agreement-

- (i) Land .- Provided by the Government at the cost of capital.
- (ii) Government aid.—Guarantee of interest in sterling at 4 per cent per annum on £6,550,000, the capital sum representing the deferred portion (one-fifth) of the annuity payable by Government in purchase of the East Indian railway. Also guarantee of principal and interest in respect of debentures and debenture stock issued by the Company.
- (iii) Distribution of profits.—The surplus profits in each half-year remaining after payment of interest and annuity charges, and the contribution to the Provident Fund, to be divided as follows:—
 - Of the first Rs. 25,00,000 of such surplus profits (or of the whole amount when it does not exceed Rs. 25,00,000) the Government to receive four-fifths and the Company one-fifth; of any excess beyond Rs. 25,00,000 the Government to receive four-teen-fifteenths and the Company one-fifteenth.
- (iv) Rates and fares.—Maximum and minimum rates and fares to be authorised, and the classification of passengers and goods to be prescribed, by the Government.
- (v) Special obligations as to the conveyance of -
 - (a) Mails, troops, high Government officials and Government stores.—To be conveyed on same general conditions, and at rates (to be approved by the Government) not less than those in force for the time being for similar services on State railways of the same gauge.
 - (b) Government bullion and coin, and the persons in charge thereof.—To be carried at special rates to be from time to time approved by the Government.

EAST INDIAN RAILWAY SYSTEM-contd.

East Indian railway (5' 6" gauge)-concld.

Main provisions of contracts and agreement-concld.

- (vii) Power of the Concrament to determine contract.— By the contract of the 14th November 1899 the
 (vii) Power of the Company to surrender contract.— Government and the Company mutually agree that they will not determine the contract dated the 22nd December 1879 before the 31st December 1879 the contract dated the 22nd December 1879 before the 31st December 1879 the contract dated the 22nd December 1879 before the 31st December 1879 the contract dated the 22nd December 1879 before the 31st December 1879 the contract dated the 22nd December 1879 before the 31st December 1879 the contract dated the 22nd December 1879 before the 31st December 1879 the contract dated the 22nd December 1879 before the 31st December 1879 the contract dated the 22nd December 1879 before the 31st December 1879 the contract dated the 22nd December 1879 before the 31st December 1879 the contract dated the 22nd December 1879 before the 31st December 1879 the contract dated the 22nd December 1879 before the 31st December 1879 the contract dated the 22nd December 1879 before the 31st December 1879 the contract dated the 22nd December 1879 the contra (vii) Power of the Company to surrender contract .ber 1919. On that date, or at the end of any succeeding fifth year thereafter, either party may determine the contract by giving two years' previous notice. (On the determination of the contract the portion of the anouity that has been deferred will become payable for the period remaining up to the 14th February 1958.)
- (viii) Term of contract [if not determined under (vi) and (vii)] .- 50 years from 1st January 1880.

Statistics of working (Those for 1879 will be found in Appendix 38 to the Railway Administration Report for 1907.)-

									_		
Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earn- ings.	Percentage of net earnings on total capital outlay given in column (3).	Interest.	Annuity.	Company's share of surplus profits (based on terms of contract) altributable to each year.	Gain to the State pertaining to each year,	Earn- ings per mile per week.	Pro- por- tion of ex- penses to earn- ings.
1	2	3	4	5	6	7	8	9	10	11	12
		1	Ra.	Rs.		Rs.	Rs.	Rs.	Bs.	Ra.	
1890 .	Miles. 1,504·25	16s. 34,18,12,052	4,29,45,116	2,84,66,874	8.33	a1,96,03,398		17,72,690	70,90,786	549	33.71
1681.	1.506.75	34,67,27,455	4.54,11,472	3,06,38,827	8.84	30.27,492 31.83,022	1,72,92,000 1,72,92,000	20.63,867 17,88,073	82,55,468 71,52,291	578 601	32·53 37·57
1882	1.506.77	34,83,42,743	4.71.17,594	2,94,15,386	8·44 8·82	33,68,151	1,75,10,887	19.99,731	79,98,922	630	37.58
1883.	1,509 46	35,02,20,413	4.94,67,085 4,38,38,714	3,08,77,691 2,70,76,204	7.66	34,79,206	1.77,35,384	11.72,323	46,89,291	558	38 24
1884 . 1885 .	1,509·46 1,514·99	35,34,09,667 35,61,22,471	4,63,86,889	2,97,35,295	8:35	36,22,093	1,79,65,714	16,29,502	65,17,986	589	35·90 35·25
1886 .	1.514.86	35,80,42,570	4,66,70,853	3,02.20,962	8.44	37,84,444 38,48,886	1.89.50,137 1,92,13,333	14,97,276 15,87,259	59,89.105 63,49,039	591 583	32.71
1887	1.513.36	35.85,11,962	4,60,65,661	3,09,98,517	8.65 8.38	38,48,886	2,03,43,580	11.64,693	46,58,773	567	33.91
1888.	1,513 45	35,82,32,469	4,54,36,902 4,49,57,901	3,00.27,370 2,91,14,970	8.09	39,98.237	2.09,60,000	8,31,347	33,25,386	557	35.34
1889 . 1890 .	1,525 44 1,525 44	35,98,56,817 36,00,54,709	4,34,39,355	2,95,21,546	8.20	39,95,919	2,03,43,530	10,37,019	41,48,078	538	32·03 27·95
1891.	1.525:44	35,94,69,179	4,94,85,230	3,56,54,312	9.92	37,33,297	1,86.94.054	26.45.392 20.88.760	1.05,81,569 83,55,041	615 587	28.73
1892 .	1.610 27	36,51,42,775	4,88,55,105	3,48,16,719	9.54	37,25,754 41,26,889	2.06,47,164 2,34,46,780	17.04.125	68.16.499	584	29.01
1893.	1,610.78	37,17,65,626	5,26,89,485	3,60,94,293 3,64,26,405	9.71	43,37,988	2,43,89,582	15.39.767	61,59,068	604	30.87
1894 . 1895 .	1,664·11 1,700·19	37,50,81,624 38,08,79,764	c5,41,50,856		9.93	45,73,671	2,61,01,132	14,29,078	57,30,845	603	30·13 31·98
1896 .	1.701.11	38.54.11.272	d5,40,69.142		9.54	46,90,562	2,58,59,455	12.45,733	49,81.932 95,51,053	597 649	29.47
1897 .	1,765.09	39,66,36,442	5.88,28,013	4,14,93,460	10·46 9·96	48,20,238 50,46,514	2,47,34,406 2,32,64,533	23,87,763 24,99,244	99,96,978	658	31.76
1898 .	1,712 25	40.98,39,605	5,97,96,060	4,08,07,269 4,26,60,018	9.93	54,63,902	2,21,46,516	30,09,920	1,20,39,680	697	32.87
1899.	1,710.67	42,96.85,477	6.35,45,974 6,84,74,972	4,47,15.571	10 04	60,18,054	2,15,60,963	18,09,104	1,53,27,450	708	34.70
1900.	1,840 32	44,54,88,809	0,04,14,012		!		1	1	1 54 00 000	733	35.06
1901.	1.838-04	45,95,76,136	7.03.96,636	4.57,13,311	9.95	65,46,878	2,16,82,360	18,51,450	1,56,32,623 1,26,79,508	687	36.55
1902	1.923 35	47,43,55,297	6.77,38,713	4.29,80,833	9·06 9·51	70,34,492 74,46,371	2,16,46,868 2,16,15,000	18.24.961	1,55,49,461	692	33.64
1903.	1,935-11	48,80,34,496	6,99,72,700	4,64,35,793 5,06,03,115	10.07	80,23,978	2,16,15,000	20.64.276	1,88,99,861	749	33:39
1904.	1,932 87	50.26,09,029	7,59,71,544	4,82,21,979	9.17	86,75,860			1,60,69,044	738	35.74
1905.	1,972 30	52,58.72,727	1,00,31,100	2,02,21,010	1	1		1	1 1000 545	cent	/38-6
1906.	2.165.04	54,79,28,490	8.02.50,910	e4.87,53,855	8.90	93,88,271	2,16,15,000	18.50,039 17,75,310	1,59,00,545 1,48,54,344	1870	39.7
1907 .	2,208-29	54,79,28,490 56,77,47,625	8,11,29,807	e4,84,10,858	8·53 7·56	1,01,66,204	2,16,15,000 2,16,15,000	14,58,887	1.04,21,422	166	115 8
.1908 .	2,213 18	58,74,01,148	8,28,51,108 98,28,35,189	e4,44,26,132 e4,77,90,961		1,15,88,058	2,16,15,000	16,39,194	1.29.48.709	/69.	141 7
1909. 1910.	2,212.07 2,212.77	60,87,01,643 60,82,23,218	8,60,42,147	e5,20,01,250		1,18,60,704	2,16,15,000		1,66,23,849	7722	/39.0
1911 . 1912 .	2,265 86 2,831 09	62,08,94,980 63,49,50,982	9,22,36,385 10,15,50,003	e5,59,09,018 e6,32,20,565	9.96 9.00	1,21,80,902 1,26,75,172			1,99,72,242 2,63,35,031	/810	f38·8 f37·2
1st qr of 1918 1913-	2,359.40	64,01,66,586	2,58,28, 0 08	e1,49,21,56		32,55,583		5,84,149 24,12,112	56,78,085 2,37,69,564	1	j [±] 1.7 (39.8
14	3.424.20	66,70,44,170	10,26,92,832	c6,13,88,000	9 20 8 87	1,35,41,326		24,12,112	2,36,60,074		538 I
1914-	2,445.63	70,52,95,287	10,35,97,327	e6,25,79,018	001	1,20,70,000	2,10,10,400	2101,201	5,50,50,012	1	1
1915- 16. 1916-	2,448-22	71,50,37,347	10,51,90,203	e6,39,64,189		1,60,07,057	2,16,15,000	24,22,809	2,39,19,323	j≅00 j823	1
17.	2,495.26	72,11,24,810	11,08,91,903	e7,00,05,890	9.71	1,62,94,019	2,16,15,000	29,06,458	2,92,90,413	1025	7 55 9
17. 1917- 18.	h2,468.77	172,16,13,766	11,77,52,286	ei7,67,10,842	10.63	1,63,44,008	2,16,15,000	32,52,122	8,55,29,712	1 /890	/31-1

⁽a) Interest in 1880 includes anomity charges, which cannot be separated.

(b) Includes arreaty codity for substantial improvements, Rs. 10,49,127.

(c) Includes Rs. 1,650 paid to Mr. Patterson, Law Agent, as remuneration in respect of the amount realised from the Palmer's Trust Estate.

(d) Excludes Rs. 1,600 paid to Mr. Patterson, Law Agent, as remuneration in respect of the amount realised from the Palmer's Trust Estates.

(a) Excludes the Sunth Binar railway.

(a) Excludes the South Binar railway.

(b) Inalindes arrear oredits for substantial improvements, Rs. 26,19,763.

(c) Inalindes arrear oredits for substantial improvements, Rs. 26,19,763.

(d) The descrease is due to the dismantling of 31.55 miles, Bhagalpur to Mandar Hill, of the Bhagalpur Bausi branch.

(e) Excluding Rs. 53,065 paid to the Burdwan-Katwa railway to make up guaranteed interest on paid up espital.

EAST INDIAN RAIEWAY SYSTEM-contd.

Delhi-Umballa-Kalka railway (5' 6" gauge)-

Chairman.—Alexander Izat, Esq., C.I.E.
Secretary.—E. A. Neville, Esq.
Offices.—287, Gresham House, Old Broad Street, London, E.C.

Date of registration of the Company .- 25th January 1889.

Progress in opening-

Sections of railwa	y.				Date of opening.	Miles.	Total.
1		 		 	2	8	
Main line.— Delhi to Kalka					1-3-91	161-88	
Kurukshetra to Kaithal					1-12-10	29.76	
British section of Jind-Panipat railway— Panipat Junction to 2'45 miles from Madlauda	٠.		٠.		1-11-16	14.76	
Total .					.,,		206

Details of construction-

Permanent-way.-The permanent-way consists of double-headed steel rails, 75 lbs. to the yard, laid on Denham-Olpherts' cast-iron plate and wooden sleepers with cast-iron chairs. On the Kaithal branch 75-lb. flat-footed steel rails have been used.

Ballast.-The Main line and Kaithal branch are ballasted with stone. The British section of the Jind-Panipat railway is at present packed with earth except at bridge approaches.

Fencing.—The Main line and Kaithal branch are fenced. The British section of the Jind-Panipat railway

is fenced round station-yards at important road-crossings and villages.

Curves .- The sharpest curve is of 1,010 feet radius.

Gradients .- The ruling gradient is 1 in 200, except for 15 miles from Kalka where it is 1 in 40.

Dated the 24th January 1889 (called the principal working contract), between the Secretary of State and the East Indian Kailway Company, for working and maintenance.

Dated the 12th February 1889 (called the principal contract), between the Secretary of State and the Delhi-Umballa-Kalka Railway Company for the construction of the railway.

Dated the 19th March 1890 (supplemental to the contract of 1889), hetween the Secretary of State and the Delhi-Umballa-Kalka Railway Company, as to the raising of additional capital by the issue of debentures.

Dated the 19th December 1895 (supplemental to the contract of 1889), between the Secretary of State and the Delhi-Umballa-Kalka Kalkay Company, conceding to the Company, from the 1st January 1893, the 2 per cent of gross earnings previously retained by Government.

Dated the 21st July 1896 (supplemental to the contract of 1889), between the Secretary of State and the

East Indian Railway Company, as to the provision of funds for further capital works.

Dated the 24th July 1896 (supplemental to the contracts of 1889 and 1890), between the Secretary of State and the Delhi-Umballa-Kalka Railway Company, as to the provision of funds for further capital works. Dated the 9th June 1897 (supplemental to the contracts of 1889, 1890 and 1895), between the Secretary of State and the Delhi-Umballa-Kalka Railway Company, guaranteeing interest at the rate of 31

per cent on share capital.

Dated the 27th April 1903 (supplemental to the contract of 1839), between the Secretary of State and the Delhi-Umballa-Kalka Railway Company, as to the adoption of 1s. 4d. per rupee as the "prescribed " rate of exchange.

Dated the 1st July 1909 (supplemental to the contracts of 1889 and 1896), as to the working and Dated the 1st only 1005 (supplemental to the contracts of 1805) and 1905), between the Secretary of State and the East Indian Railway Company; construction, respective-left the 3rd November 1909 (supplemental to the contracts of 1889, 1890, ly, of the Kaithal 1895, 1896, 1897 and 1903), between the Secretary of State and the branch.

Delhi-Umballa-Kalka Railway Company;

Dated the 8th April 1914, between the Secretary of State and the Delhi-Umballa-Kalka Railway Company, as to the adoption of the Government Financial year for the preparation of accounts.

Main provisions of contracts—

(i) Land .- To be provided by the Government free of cost to the Company.

(ii) Government aid.—

The Government undertake (through the agency, in the first instance, of the (iii) Terms of working.—

East Indian Railway Company) to supply the necessary rolling-stock and to work and maintain the line until the 31st December 1926, taking 48 per cent of the gross receipts of the railway for the working agency and paying 52 per cent to the Company. By the contract of 9th June 1897 Government supplement the net earnings of the Company for the year 1896 and each succeeding year by such an annual subsidy as will enable the Company, after payment of debenture interest, to pay a dividend of 31 per cent per annum on its share capital.

(iv) Distribution of profits.—Surplus profits in any year in excess of 3½ per cent per annum on share capital are divided equally between the Government and the Company until the Government has been repaid amounts advanced by way of subsidy, with interest. Thereafter all surplus profits will belong to the Company.

(v) Rates and fares. - To be agreed upon between the Government and the working agency; but between Delhi and Umballa not more than the maximum, nor less than the minimum, in force on the East Indian railway, and between Umballa and Kalka not more than three times such maximum nor less than such minimum.

EAST INDIAN RALLWAY SYSTEM-contd.

Delhi-Umballa-Kalka railway (5' 6" gauge) -concld.

Main provisions of contracts-concid.

(vi) Special obligations as to the conveyance of .-

(a) Mails, troops, high Government officials and Government stores.—

Nil.

(b) Government bullion and coin, and the persons in charge thereof.—

Nil.

(vii) Power of the Government to determine contract .- The Government may determine the contract on the previous determination of the Principal Contract or on the 31st December 1926, or on the 51st December of any subsequent tenth year. On determination Government are to receive possession of the railway, and to pay the Company a sum equal to 25 times the average yearly profits of the Company during the preceding five years. Payments by the Government by way of subsidy under the contract of the 9th June 1397 and also the additional 2 per cent of gross earnings conceded to the Company under the contract of the 19th December 1895 are to be excluded from the profits of the Company in calculating the price to be paid by the Government.

(viii) Power of the Company to surrender contract.-Nil.

(ix) Term of contract [if not determined under (vii)]. - Not specified. Statistics of working (including the Jind-Panipat railway (Native State section) from 1916-17.)-

	MILEAGE OPEN AT EACH MILEAGE OPEN AT AT EACH EACH EACH EACH EACH EACH EACH EACH		LUBING TO END AR, i.e., i) LINES i) LINES		NET EAR	CNINGS,	PERCEI OF N EARNIN TOTAL TAL OU	ET GRON CAPI- TLAY,	INC.	ELHI-UMB ALBA RAH LUDING B CTION OF SIFAT RAI		. Jain		
Year.	Delhi- Umballa- Kalka railway, including British section of Jind- Panipat railway.	State section of	way, including British section of Jind-Panipat	Native State section of Jind- Panipat railway.	Gross earnings,	Pelhi Umballa- Kalka railway, including British section of Jind Panipat railway.	Native State section of Jind- Panipat railway	Delhi Umballa Katka Railway includ- ing British section of Jind- Panipat railway	Native State sec- tion of Jind- Pani- pat			Por- centage of total income on total capital outlay given in column (4).	Earnings per mile per week.	Proportion of expenses to estraings
1	2	3	4	5	6	7	_8	9	10	11	12	13	14	15
1894 1892 1893 1894 1895	Miles. 162-24 161-40 161-40 161-40 161-40	Miles.	Rs. 1,55,44,692 1,58,22,137 1,55,24,600 1,55,25,547 2,55,06,120	Rs.	Rs., 9,07,697 10,81,769 11,98,508 13,37,526 14,69,519	Rs. 4,72,002 5,62,520 6,23,224 6,95,514 7,59,470	Rs.	3:01 3:56 4:01 1:48 4:90		Rs.	Rs. 4,72,002 5,62,520 6,23,224 6,95,514 7,59,470	3:04 3:56 4:01 4:48 4:90	Rs. 128 129 143 159 174	48:00 48:00 48:00 48:00 48:00
1896 1897 1898 1899	160:47 162:24 162:24 162:24 162:24		1,54,49,783 1,53,26,585 1,53,43,587 1,53,01,272 1,53,15,467		13.18,840 15,73,319 16,07,512 14,49,378 13,72,520	6.85,797 8,18,126 8,35,906 7,58,677 7,10,712		4:44 5:04 5:45 4:93 4:66			6,85,797 8,18,126 8,35,906 7,53,677 7,13,712	4:44 5:34 5:45 1:93 4:66	158 186 191 172 163	48:00 48:00 48:00 48:00 48:00
1901 1902 1903 1904 1905	162°24 162°24 162°36 162°36 162°36		1,52,92,648 1,54,23,791 1,55,49,998 1,55,51,763 1,56,97,499		$\begin{array}{c} 18,05,858 \\ 18,66,695 \\ 18,30,960 \\ 18,53,475 \\ 20,16,936 \end{array}$	9,39,046 9,70,681 9,52,099 9,62,807 10,48,807	•••	6:14 6:29 6:12 6:20 6:72			9,39,046 9,70,681 9,52,099 9,63,807 10,48,807	6:14 6:29 6:12 6:20 6:72	213 221 216 218 238	48:00 48:00 18:00 48:00 48:00
1906 1907 19 0 8 1909 1910	162 36 162 36 162 36 162 36 162 36		1,57,26,343 1,58,23,198 1,60,07,122 1,66,56,595 1,75,45,512		20,01,218 23,04,659 21,09,189 22,90,710 26,05,863	10,42,194 17, 28,423 10,96,778 11,91,169 17,55,018	***	6:63 7:57 6:85 7:15 7:72			$\begin{array}{c} 10,42,194 \\ 11,98,423 \\ 10.96,778 \\ 11.91,169 \\ 13.55,018 \end{array}$	6°63 7°57 6'85 7°15 7°72	237 272 250 271 261	48:00 48:00 48:00 48:00
1911 1912 1st qr.		:::	1,77,78,158 1,79,12,579		31,53,021 32,30,326	16,39,571 16,79,769		9°22 9°38			16,39.5 7 1 16,79.76 9	9:08	316 323	48:00 48:00
of 1918 1913-14 1914-15 1915-16 1916-17 1917-18	19212 19212 19164 19161 20640 20640	25 90 25 90	1,79,84,924 1,80,32,784 1,84,33,052 1,92,01,786 1,94,98,488 1,95,27,500			4,05,009 16,16,945 16,72,114 16,5,,153 18,85,843 22,47,873	17,299 56,355	2:43 9:13 9:07 8:62 9:67 11:51	1.08 3.37	•••	1,35,009 16,46,945 16,72,114 16,55,153 18,85,843 22,47,872	2°43 9°13 9°07 8°62 9°67 11°51	835 817 928 819 303 367	48'00 48'00 48'00 48'00 48'00 48'00

Jind-Panipat railway (Native State Section) (5' 6" gauge) -

This line is the pertica of the Jind-Panipat railway which lies within the limits of Jind territory; the portion lying in British territory forms an integral part of the Delhi-Umballa-Kalka railway. Its construction by the Agency of the Delhi-Umballa-Kalka Railway Company was authorised by the Railway Board in their letter No. 2477-R.C., dated the 11th September 1913.

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
	- 2	3	
2°45 miles from Madlauda to Jind city on the Southern Punjab railway	1-11-16	25 .9 0	25.90

EAST INDIAN RAILWWY SYSTEM-contd.

Jind-Panipat Railway (Native State Section) (5' 6" sauge) -concld.

Details of construction --

Permanent-way. The permanent-way consists of second-hand 75-lb. double-headed steel rails on wooden and Denham-Olphert's deepers.

Ballast .- The line is at present packed with earth, except at bridge approaches where brick ballast has been used.

Fencing .- The line is fenced only round station-yards and at important road crossings and villages.

Curves. - The sharpest curve has a radius of 3,820 feet.

Gradient. - The ruling gradient is 1 in 250.

Agreement .- The line is being maintained and worked under the terms of an agreement which is under consideration.

Statistics of working -

Included with the Delhi-Umballa-Kalka railway.

South Bihar railway (5' 6" gauge)-

Chairman .-- Sir Henry S. Cunningham, K.C.I.E.

Acting Secretary .- Percy A. Cory, Esq.

Offices .- 91, York Street, Westminster, S. W.

Date of registration of the Company .- 4th July 1895.

Progress in opening...

Coo III Oponiana									
Sections of radway.						Date of opening.	Miles.	Total.	
	1					2	3	4	
keeserai to Wazirgunj	: :	: :	:	: :	: :	5-7-97 10-7-99	79-19	79-19	

Details of construction-

Permanent-way. -The permanent-way consists of double-headed steel rails 75 lbs. to the yard, laid on wooden sleepers and cast-iron chairs and Denham-Olpherts' cast-iron plate sleepers.

Bullast .- The line is ballasted throughout with stone.

Fencing.—The line is fenced only near village, at stations and for a short distance on each side of level crossings.

Curves .- The sharpest curve is of 3,000 feet radius,

Gradients .- The ruling gradient is 1 in 400.

Contracts-

Dated the 7th August 1895 (called the principal soutrast), between the Secretary of State and the South Bihar Railway Co apany, as to construction.

Dated the 22nd August 1895 (called the contract of 1825), between the Secretary of State and the East Indian Railway Company, as to maintenance and working

Dated the 21st April 1903 (supplemental to the contract of 1895), between the Scorelary of State and the South Bihar Railway Company, as to the ad-prion of La 1d. per super as the "prescribed" rate of exchange.

Dated the 11th December 1996 (supplemental to the contract of 1895), between the Secretary of State and the South Bihar Kailway Company, as to the lorse of the South Bihar railway to the Secretary of State and yearly payment to the Company until date of determination of the contract of the 7th August 1895.

Dated the 16th January 1907, between the Secretary of State and the East Indian Railway Company, as to working the South Bihar railway as part of the Company's undertaking.

Main provisions of contracts-

(i) Land .- Provided by the Government free of cost to the Company.

Government a astructed the line, from funds provided by the South (n) Government aid .-Government a Istracted the line, from ministensive and worked it through Bihar Railway Company, and maintained, stocked and worked it through (iii) Terms of working .-

(iv) Distribution of profits. - I the agency of the East Indian Bailway Company up to the 31st December 1905, for a certain propertion of its cross earnings; and, by agreement with the East Indian Railway Company, also allowed to the South Bihar Railway Company, by way of rebate, 2 percentage of the East Indian Railway's slare of the receipts from traffic inferehanged between the two railways towards making up an amoust equal to 4 per cent interest for each half-year on the actual capital expenditure (subject to certain limits) on the South Bihar railway.

With effect from the 1st January 1906 the South Bihar Builway Company leased its line to the Government for a yearly sum of £30,000, payable by half-yearly payments of £15,000, at the end of each calendar half-year, in substitution of the corresponding provisions of the principal contract of the 7th August 1895.

As between the Government and the East Indian Railway Company the South Bihar railway as from 1st January 1906 is worked as part of the undertaking of the Company, who pay to the Government from the net half-yearly revenue of the undertaking the half-yearly sum of £15,000 and also interest for each half-year at 31 per cent per annum on Rupees 7,63,099-1-11, being the amount of capital advances madiliev the Government for the purposes of the South Bihar railway.

EAST INDIAN RATEWAY SYSTEM -concld.

South Bihar railway (5' 6" gauge)-concld.

(v) Rates and fures .-

(vi) Special obligations as to the conveyance of .-As under the East Indian railway. (a) Mails, troops, high Government officials and Government stores .-

(b) Government bullion and coin, and the persons in charge thereof .-

(vii) Power of the Government to determine contracts. Government may determine the South Bihar Railway Company's contracts on the 30th June 1919, or on the 30th June in the last year of any subsequent period of 10 years from that date, by giving twelve months notice. In case of such determination the Government will pay to the Company in England £981,580, as being the capital expended on the undertaking with the authorisation of the Secretary of State.

The East Indian Railway Company's contracts terminate at the same time as the Company's contract of 1879, for which see under East Indian railway.

(viii) Power of the South Bihar Railway Company to surrender contracts. —Nil.
(ix) Power of the East Indian Railway Company to surrender contracts. —As under (vii).
(x) Term of South Bihar Railway Company's contracts [if not determined under (vii)]. —Not specified.
(xi) Term of East Indian Railway Company's contracts. —As under (vii).

Statistics of working -

Year.		Mileage open at end of each year.		Total capital outlay, including suspense, to end of each your, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net earnings.	Percent- age of net earnings or total capital outlay given in column (3).	Rebate from the East Indian railway.	Total income,	Percentage of total income on total capital outlay given in column (3),	Earnings per milo per week.	Propertion of a capenses to earnings.
	1	- 1	2	3	4	5	6	7	8	9	10	11
1899 1900	:		Miles, 78:83 78:76	Rs. 1,18,16,730 1,23,15,110	Rs. 2,03,328 4,67,133	Rs. 1,32,163 3,03,636	1·12 2·47	Rs. 33,403 1,44,404	Rs. 1,65,566 4,48,010	1:40 3:61	Rs. 100 114	32.00
1901 1902 1903 1904 1905	:		78·76 78·76 78·76 78·76 78·76	1,23,66,533 1,19,88,612 5,26,01,897 1,19,72,914 1,19,77,154	5,14,870 4,99,809 5,24,605 5,70,358 5,55,199	3,08,822 2,74,895 2,88,533 3,13,697 3,05,360	2:50 2:29 2:40 2:62 2:55	1,28,082 1,35,145 1,57,768 1,65,382 1,72,721	1,36,901 4,10,340 4,46,241 4,79,079 4,78,081	3:42 3:42 3:72 4:00 3:99	138	45.00 45.00
1906 1907 1908 1909 1910	:		78·76 78·76 79·19 79·19 79·19	1,19,74,947 1,19.77,154 1,19.77,154 1,19.77,154 1,19,77,154								!
1911 1912 1st c .,f191 1913- 1914- 1915- 1916- 1917-	3. 14 15 16 17		79·19 79·19 79·19 79·19 70·19 79·19 79·19	1,19.77.154 1,19.77,154 1,19.77,154 1,19.77,154 1,19.77,154 1,19.77,154 1,19.77,154 1,19.77,154	Sec "to	ems of wor	king" abor	re.				

Chairman .- Sir Charles Herbert Armstrong.

Secretary .- R. H. Walpole, Esq.

Offices .- 48, Copthall Avenue, London, E. C.

Dute of registration of the former Guaranteed Company .- 1853.

Lines comprised in the system. The Great Indian Peninsula railway system is made up of-

									Open line.	Under construction or sanctioned for construction.	Total
(1)) Agra-Delhi (Peninsula railway (5 hord railway (5' 6" ga railway (5' 6" gauge)	'6" gauge)	· : :	:	:	:	. :	Miles. 2,558 13 125 88 40 29	Miles. 114.94 	Miles 2,668.0 125.8
(d.	i) Bhopal-Itars) Bhopal-Ujjai	i railway (5' 6" gauge n railway (5' 6" gauge Baran railway (5' 6" g)	: :	:	:	:	: ;	57.22 113.28 147.07	••• •••	40·2 57·2 113·2
(g	i) Cawnpore-Bi i) Dhond-Barai	ında railway (5′6″ gar mati railway (2′6″ gar	nge) . nge) .	: :	:	:	:	•	75·71 27·26	•••	147·0 75·7 27·2
i j) Pulgaon-Arvi) Matheran Lig	otmal railway (2' 6" ga railway (2' 6" gauge) ht railway (2' 0" gaug her railway (2' 6" gaug	· ·	: :	:	:			117.66 21.83 12.61	 34.62	117:66 21:8 12:6 84:6
							Tota	ul .	8,291.94	149:56	8,441.50
Home l	Dadar juncti and Ideah to Ag	eign lines:— ion to Colaba,7°25 mil goods trains, Bombay ra Fort, Bombay, Bar	, Baroda a oda and C	nd Central I	ral In ndia 1	dia ra ailwa	ilway	pas se i	ger and goods	trains	
Home l	Dadar juncti and Idgah to Ag At Cawnpore pass and At Cawnpor mile At Katni, 1.16	ion to Colaba,725 mil goods trains, Bombay	, Baroda a roda and C ger and 0 as, at Kain Depot, 1.8 ger and g only, Ond and betw	entral I 52 mile i, 0 38 n 6 miles oods tra h and R	ral In ndia 1 for goo ile for for goo ins an ohilkh	dia ra ailwa ailwa ds tr good ds tr d betv and r	ilway y, for ains or ains, le veon Co ailway	passer ily, a s onl ast In	ger and goods t Manikpur, 0 y and betw dian railway re and Luckno	trains 63 mile for een Belangan; ow, 44 63 goods	. 434 . 454 . 33
	Dadar juneti and Idgah to Ag At Cawnport pass and At Cawnpor mile At Katni, I'd train	ion to Colaba, 7:25 mil goods trains, Bombay ra Fort, Bombay, Bat 6, 007 mile for passon super and goods train Junna Bridge Goods c, 086 mile for passon s for passonger trains so miles for passonger as, Bongal-Nagpur re	, Baroda a roda and C ger and 0 as, at Kain Depot, 1.8 ger and g only, Ond and betw	entral I formal I formal I formal in the second of the formal in the second of the sec	ral In ndia 1 for goo ile for for goo ins an ohilkh	dia ra ailwa ailwa ds tr good ds tr d betv and r	ilway y, for ains or ains, l veon Co ailway wari	passer ily, a s onl ast In	ger and goods t Manikpur, 0 y and betw dian railway re and Luckno	trains '63 mile for een Belanganj ow, 44.63	. 436
	Dadar junctiand Idgah to Ag At Cownport pass and At Cownport mile At Katni, 1:6 train	ion to Colaba, 7:25 mil goods trains, Bombay ra Fort, Bombay, Bat, organ and goods train Jumna Bridge Goods (, 086 mile for passen s for passenger trains miles for passenger trains Bengal-Nagpur r Jome line: —	, Baroda a ogar and O os, at Katn Depot, 1-8 ger and g only, Ond and betw illway	nd Central I contral	ral In ndia 1 for goo ile for for goo ins an ohilkh pur a	dia recall was a silver ods transfer ods to describe the condition of the	tilway ty, for ains or s train s train tween Cr ailway twari	passer ily, a s onl ast In	ger and goods t Manikpur, 0 y and betw dian railway re and Luckno	trains 63 mile for een Belangan; ow, 44 63 goods	. 4'36 . 45'44
	Dadar junctiand Idgah to Ag At Cownpore and At Cownpore mile At Katni, 1: train hines over Bengal-Nag Bombay, Ba Rombay, Ba	ion to Colaba, 7:25 mil goods trains, Bombay ra Fort, Bombay, Bat , 0:27 mile for pusson auger and goods train Junna Bridge Goods e, 0:36 mile for passen 5 for passenger trains 90 miles for passenger as, Bengal Nagpur re comme line:————————————————————————————————————	, Baroda a coda and C ggr and O s, at Kath Depot, 18 ger and g only, Ond and betw tilway r, for pass a railway, a railway,	nd Cententral I 52 mile i, 0 38 n 6 miles oods tra h and R cen Nag Dudar 90 05 m	ral In ndia 1 for goo ins an ohilkh pur a Juneti iles, M	dia racilwas cailwas c	tilway ty, for sins or strains, by veon Cu ailway twari carna	passer aly, a s onloast In wanpo Bazar,	ger and goods t Manikpur, 0 y and between the services of the	trains (3 mile for (3 mile for (3 mile for (3 mile for (3 mile for (3 mile for (3 mile for (4 mile for	. 1'32 . 4'36 . 45'44 . 8'33 . 61'99
	Dadar junctiand digah to take A Cawapper and At Cawapper and At Katni, 1 f train train the second being a lines over / Bengal-Nag Bombay, Ba Bombay, Ba Kasat Indian	ion to Colaba, 7:25 mil goods trains, Bombay ra Fort, Bombay, Bat , 0:27 mile for pusson auger and goods train Junna Bridge Goods e, 0:36 mile for passon for pussonger trains 90 miles for passonger as, Bongal Nagpur re pur milway, at Nagpur rota and Central Indi imi to Cowari, for pas railway, Belanganj ju	, Barods a coda and C or and O or and O or and O or and O or and O or and O only, Ord and between the control of the code of t	nd Cententral I 52 mile i, 0.38 n 6 miles oods tra h and R een Nager a Dadar 90.05 m 1 200ds Agra Ca	ral In ndia 1 for goo ile for for goo ins an ohilkh pur a nd go Juneti iles, h trains ntonn	dia racial value of the control of t	tilway y, for sins or s trains rains, I veen Cl ailway twari Carna Junct	passer ly, a ly, a last in awupo Bazar, e Brid ion to enger	ger and goods t Manikpur, 0 y and beye dian railway re and Luckue 1.73 miles for Delhi Juncti trains culy	trains (3 mile for (3 mile for (3 mile for (3 mile for (3 mile for (3 mile for (3 mile for (4 mile for	. 0:65 . 4:30 . 91:83

Great Indian Peninsula railway (5' 6" gauge)-

The Great Indian Peninsula railway comprises the line formerly owned by the old Guaranteed Company of that nome (now called the Great Indian Peninsula railway proper), in amalgamation with that of the late Indian Midband Railway Company (now known as the Midland section). The Guaranteed Company's railway was purchased by the State in 1900, when all the contracts then subsisting between the Secretary of State and that Company were determined and a new Great Indian Peninsula Railway Company was constituted. The amount of the purchase price was £34,559,218, of which £33,109,218 is being paid by means of a terminable amounty of £1,268,516, the remaining £1,750,000 being represented by Company's stock issued in exchange for £67,047 of annuity. In addition to the purchase price, the debentures and debenture stock of the Company for which the Secretary of State incurred the liability on purchase amounted to £5,982,350.

The contract between the Secretary of State and the Indian Midland Railway Company, dated the 22nd October 1885, was determined by the Secretary of State on the 31st December 1910. That does not, however, substantially affect the carrying out of the contract, between the Secretary of State and the Great Indian Peninsula Railway Company, dated the 21st December 1900, the effect of which is that the railways formerly known as the "Indian Midland Railway System" are to form part of the undertaking worked by the Company for so long as that coutant remains in force.

Nor are the arrangements subsisting at the date of the termination of the Indian Midland Railway Company's contract for working of the Native State branches of that Company's line disturbed in any way by the termination of that Company's contract, the necessary alterations, whereby the Government becomes a party thereto instead of the Indian Midland Railway Company, having been made in the working agreements relating to such branches. The Gwalior Light railway was worked by the Great Indian Peninsula Railway Company up to the 30th June 1913, after which date the working was taken over by the Gwalior Durbar.

Great Indian Peninsula railway (5' 6" gauge)—contd.
Progress in opening—

	of r	ailw	ay.							Date of opening.	Miles.	Total.	Grand, total
	1				_					2	3	4	5
RBAT INDIAN PENINSULA RA	IL W	AY]	PROP	ER-	-			-					
NORTH-EAST LINE-									- 1		1		
Main line-									- 1	.			1
Victoria Terminus to Than	a									18-4-53	21.00		}
Thana to Kalyan .	•	•	•	•	•	•	٠	٠	•	1-5-54 1-10-55	18·41 16·14		
Kalyan to Vasind . Vasind to Asangson .	:	÷	:	:	:	:	:	:	: 1	6-2-60	3.75		
Asangaon to Kasara	٠.	. •							.	1-1-61	21.84		
Asangaon to Kasara Kasara to Igatpuri (Thal (Igatpuri to Nasik Nasik to Chalisgaon Chalisgaon to Jalgaon Jalgaon to Bhusaval	hat)	٠	٠	•	•	•	٠	•	1-1-65 28-1-61	9.89		
Nasik to Chaliseson .	:	:	:	:	:	:	:	:	:	1-10-61	81·48 87·24		
Chalisgaon to Jalgaon						÷	:	÷		6-10-62	57.48		
Jalgaon to Bhusaval	•	٠	•	•	٠		•	٠	•	20-5-68	15·04 33·73		
Bhusaval to Burhanpur Burhanpur to Khandwa	•	•	•	•	•	•	•	•	:	20-11-65 3-9-66	49.78		
Khandwa to Bir .	:	:	:	:	:	:	:	:	:	17-2-68	42.78 21.15		
Bir to Itarsi	٠	•	•	•						1-1-70	89°27 30°69		
Itarsi to Schagpur Schagpur to Jubbulpore	•	•	•	•	•	•	•	:	•	1 · 2 · 70 8 · 3 · 70	121.65		
	•	•	•	•	•	•	٠	-	.	0-0-10		615.46	
Branches-									1	i			
Itarsi-Nagpur Branch— Itarsi to Betul									- 1	1-5-18	66.52		
Betul to Amla		·	·	:		:	•	•	:	29-9-14	14.31		
Amla to Parasia										1-11-15	53.86		
Bombay Harbour Branch-	1_								- 1	12-12-10	6.19	134.42	
Roay Road station to Kur Mahim chord-	.25	•	•	•	•	•	•	•	.	13-12-10	6 19	6.19	
Ravali to Mahim										12-8-14	1.30		
							-	-	1			1.30	
Chalisgaon-Dhulia branch— Chalisgaon to Dhulia .										15-10-00	34.95		
Challegaon to Dhana .	•	•	•	•	•	•	•	•	•	13-10-00	0100	84 95	
Jalyaon Amaluer branch-											** **		
Jalgaon to Erandol Road Erandol Road to Amalner	•	•	•	٠	•	•	•	•	•	20-2-00 4-4-00	18·26 16·00		
Erandol Road to Amainer	•	•	•	•	•	•	•	٠	•	4-4-00	1000	34.26	
Nagpur branch-										1			
Bhusaval Junction to Mal	ka pu	ır	•		•					20-5-63	30·05 32·53		
Malkapur to Shegaon Shegaon to Badnera	•	•	•	•	•	:	•	٠	•	24-10-64 18-12-65	72:67		
Baduera to Palgaon	:	:	÷	:	:	:	:	:	:	16-7-66	40.29	Į	
Pulgaon to Sindi			:			•			.	5-11-66	38.27	1	
Sindi to Nagpur	•	•	•	•	•	•	•	•	- 1	20-2-67	29.44	243-25	
Khamgaon branch-									- 1			243 20	
Jalamb to Khamgaon						•				4-3-70	7:97		
Amraoti branch-									- 1	16-2-71	5:49	7.97	
Badnera to Amraoti	•	•	•	•	•	•	•	•	•	10-2-71		5:49	
Balharshah branch-									- 1	•	·		
Wardba to mile 490:20 Mile 490:20 to mile 512:64 Mile 512:64 to Warora		٠		•		٠	•		.	1-2-79 24-12-75	18.95 22.44		
Mile 519:64 to Warora	١.	•	•	•	•	•	•	•		26-4-76	4:00		
Warora to Balharshah	•	•	:	:	:	÷	:	:		1-2-08	37-12		
									1	1		82.51	
Mohpani branch									j	3-9-72	12.47		
Gadarvada to Mohpani Mohpani to Gotitoria		:	:	:	:	:	:	:	:	22-11-96	1.07 0.14		
Mohpani to new coal-field	В									8-6-00	0.14	10-00	
										ĺ		13.68	1,179-4
Main Line-									- 1	i	1		2,210 2
	Carj	at)	٠.	•					.	12-5-56	, 30.60		
Palasdhari to Khandal	a (B	hore) Gha	t)	•	•	•	•		14-5-63 14-6-58	13·20 42·01		
Rhandala to Poona	•	•	•	•	•	•	•	•	• 1	15-12-58	64.25	}	
Ralyan to Fanadasari to Khandal Khandala to Poona Poona to Diskal Diskal to Barsi Juncti Barsi Junction to Meh	on					:	:	:	:	23-10-59	50.60	i	
Barsi Junction to Meh	ol	•	•	•		٠		•	-	21-1-60 6-6-60	28·32 20·51	J	
		•	:	•	•	•	•	•	- 1	1-2-70	70.29		
	•	:	:	:	:	:	:	:	:	1-12-70	78.76	1	
Sholapur to Gulbarga Gulbarga to Krishna			•	•	•	•	•	•	•]	1-5-71	15.31	408-85	
Sholapur to Gulbarga Gulbarga to Krishna Krishna to Raichur.	•									1		400.00	
Sholapur to Gulbarga Gulbarga to Krishna Krishna to Raichur. Eranches	•								.	15-3-78	50.41	- 1	
Manmad branch—										17-4-78	95.03		
Manmad branch—		:							- 1	r		145'44	
Manmad branch— Dhond to Ahmednagar Ahmednagar to Manma		:	٠							12-5-56	7.24	7.24	
Manmad branch— Dhond to Ahmednagar Ahmednagar to Manma	d	:	•						- 1	-			\$61.5
Manmad branch— Dhoud to Ahmednegar Ahmednegar to Manma	d	:	•			•		•	- 1				
Manmad branch— Dhond to Ahmednagar Ahmednagar to Manma Khopoli branch— Palasdhari to Khopoli	d		Pan			· Rait:	WAY	•					
Manmad branch— Manmad branch— Dhond for Abmednegar Abmednegar to Manma Khopoli branch— Palasedhari to Khopoli Total ofen mileage, Great	d	:	PEN	Inter	ULA	RAIL	WAY	· ·.			·		
Mammad branch— Dhond to Ahmednagar Abmednagar to Manma Khopoli branch— Palasdhari to Khopoli Total open mileage, Great	d Ind					Rail	WAY	•			٠		1,741
Mammal branch— Mammal branch— Dhond to Branch agar Abmedingar to Mamma Khopoli branch— Palaedhari to Khopoli Total open milleage, Great Minlaed section— Main line (including the 8c	d Ind indi	a Bt	ate ro	ailw	1y)—			•		1-1-80	179-92	₩,	1,741
Manmad branch— Manmad branch— Dhond to Branch Dhond to Manma Khopoli branch— Falsedhari to Khopoli Total open Millelog, Great Minleld rection— Main line uncluding the 8c	d Ind indi	a Bt	ate ro	ailw	1y)—			· · :		1-1-80 1-3-60	179·9·2 60·39		1,741
Manmad branch— Manmad branch— Dhond to Branch Dhond to Manma Khopoli branch— Falsedhari to Khopoli Total open Millelog, Great Minleld rection— Main line uncluding the 8c	d Ind indi	a Bt	ate ro	ailw	1y)—			· ·		1-1-80 1-3-80 20-12-79	179'92 60'39 32'40		1,741 d
Manmad branch— Manmad branch— Dhond to Branch Dhond to Manma Khopoli branch— Falsedhari to Khopoli Total open Millelog, Great Minleld rection— Main line uncluding the 8c	d Ind indi	a Bt	ate ro	ailw	1y)—			•		1-1-80 1-3-60	179'92 60'39 32'40 8'04		1,741 d
Mainmail branch— Mainmail branch— Dhond to Branchagar to Manma Khopoli branch— Palaedhari to Khopoli Total open Milleage, Great Minlaed section— Main line (including the 8c	d Ind indi	a Bt	ate ro	ailw	1y)—			ermi	nai	1-1-80 1-3-60 90-19-79 15-5-81	179'92 60'39 32'40		1,741 d
Mainmail branch— Mainmail branch— Dhond to Branchagar to Manma Khopoli branch— Palaedhari to Khopoli Total open Milleage, Great Minlaed section— Main line (including the 8c	d Ind indi	a Bt	ate ro	ailw	1y)—			·.	nal	1-1-80 1-3-60 30-13-79 15-5-81 10-1-78 27-2-06	179°92 60°39 32°40 8°04 36°05 1°75		1,741 0
Mainmail branch— Mainmail branch— Dhond to Branchagar to Manma Khopoli branch— Palaedhari to Khopoli Total open Milleage, Great Minlaed section— Main line (including the 8c	d Ind indi	a Bt	ate ro	ailw	1y)—			ermi:	nal ith	1-1-80 1-3-80 90-12-79 15-5-81 10-1-78	179·92 60·39 32·40 8·04 36·05		1,741 0
Mainmail branch— Mainmail branch— Dhond to Branchagar to Manma Khopoli branch— Palaedhari to Khopoli Total open Milleage, Great Minlaed section— Main line (including the 8c	d Ind indi	a Bt	ate ro	ailw	1y)—			ermi:	nal ith gah	1-1-80 1-3-60 30-13-79 15-5-81 10-1-78 27-2-06	179°92 60°39 32°40 8°04 36°05 1°75	319-90	1,741 6 So in d i State ra way.
Manmad branch— Dhond to Ahmednagar Abmednagar to Manma Khopoli branch— Palasdhari to Khopoli Total open mileage, Great	d Ind indi	a Bt	ate ro	ailw	to ju		to to	ermi:	nal ith gah	1-1-80 1-3-60 30-13-79 15-5-81 10-1-78 27-2-06	179°92 60°39 32°40 8°04 36°05 1°75		1,741 d

Great Indian Peninsula railway (5' 6" gauge)—contd.
Progress in opening—contd.

Sections of railway.			Date of opening.	Miles.	Total.	Grand total.	Bemarks
1		_	2	8	4	5	6
Brought forwa	ard				319.90	1,741.01	
Branches- Manikpur branch-		- 1	1	i			ł
Jhansi to Mau Banipur Mau Banipur to Bauda			5-6-89	39-96			1
Mau Ranipur to Banda Banda to Manikpur		•	1-8-89 15-2-89	78·96 61·37			l
	• · •		10-2-00		180.29		
Campure branch— Jhansi to Chaunrah		i	1-2-88	94.97		1	i
Chaunrah to Cawapore	: : :	:	1-4-86	40.98		l	
Initial point of Cawnpore Banda re	ailway at Juhi	to	1-4-15	0.20	136.4	!	t
Chaunrah to Cawnpore Banda r Initial point of Cawnpore Banda r junction point with District N Indian Peninsula Bailway foncing	e. o near Gre rat Juhi.	P.C.			190.9		1
Moth quarry			26-7-07	2.78	9.78	1	ļ
Bins to point of junction with Bi	ina-Goona -Bare	n l	1-5-95	2.00	1.78	ļ	
railway.		- 1	11-11-95	0.18			
Bhopal to point of junction with railway.	n Bnopai-Ujja	'n	11-11-95	V 18	2.18	1	
Bing-Saugor-Kaini branch -		- 1		47.07			
Bins to Saugor Saugor to Damoh	: : :	.	5-6-89 26-8-98	45·25 47·83			
Damoh to Katni		.	1-1-99	67:87		ļ	
Katni Murwara to Junction with railway.	i Bengal-Nagpi	ır	1-1-90	0.71			
Katni Murwara to Junction with Ea	st Indian railw	у	1-1-99	0.34		ĺ	1
Katni Murwara to Junction with Ea Junction near east mouth of tunnel East Indian railway down point o	(mile 887.58)	0	3-2-13	0.04		,	1
887.57).	See Oray (IIII	- 1					
East Indian railway down point of	of Agra city (mi	le	3-2-13	0.03			1
East Indian railway down point of 837-57) to Junction with East Ind 837-60)	· man remway (III)	•			162.07		1
Ait to Kunch		•	7-12-03	8:50	8:50		
		- 1			- 0.00		
Total open mileage, Midlan	ND SECTION	-			•••	812-12	
TAL OPEN MILEAGE, GREAT INDIAN P	ENINSULA RAI	C-			•••	2,553.13	
WAY. IDEE CONSTRUCTION OR SANCTIONED	FOR COMPRESS	٦. ا		1			
rion—	TOR CONSING						
Itarsi-Nagpur branch— Amla to Pandhurna } Sanction	ned on 8th June			38.80			
Pandhurna to Nagpur \$ 1908.	ned on our same	'}		8194			1
	unaction	- 1	i		108.74	1	l
		- 1	1	i i		ł	3
Tank Bundur to Victoria Termina	as (sanctioned o	n		2.15	2.12		
Tank Bundur to Victoria Termina 6th March 1912). Physics collises beauch—	as (sanctioned o	n		2-12	2.12		
Tank Bundur to Victoria Termine 6th March 1912). Phugus colliery branch— Tadeli to Ghugus (sanctioned on 31s	as (sanctioned of	n .	 	9 08			
Harbour Branch estension—overhead cot Tank Bundur to Victoria Tormins 6th March 1912). Shugus colliery branch— Tadali to Ghugus (sanctioned on 31s	as (sanctioned o	on .			2·12	114-94	
Tadeli to Chugus (sanctioned on 31s	at May 1917).	n.	•••	9 08	9:08	114:94	
Tadeli to Ghugus (sanctioned on 31s	as (sanctioned of May 1917).	on .		9 08		114·94 2,668·07	
Tadeli to Glugus (sanctioned on 31s (ADRUPLE LINE— Victoria Terminus to Curry Road	at May 1917).		 4-12-05	9 08	9:08		
Tablit to Glugus (sanctioned on 31s [ADRUPLE LINE - Victoria Terminus to Curry Road Carry Road to Thans	at May 1917).	on	 4-12-05 4-12-15 5 17-3-16	9 08 4 29 17 07 1 59	9:08		
Tabili to Glugus (sanctioned on 31s GRADUPLE LINE— Victoria Terminus to Curry Road Curry Road to Thana Thana to Kalyan	at May 1917).		 4-12-05 4-12-15	9 08 4 29 17 07	9:08		
Tadvii to Glugus (sanctioned on 31st Tadvii to Glugus (sanctioned on 31st Tadvii) to Glugus (sanctioned on 31st Tadvii) to Glugus (sanctioned on 31st Tadvii) to Gurry Road Curry Road to Thana to Kalyau UBRIE LINE— UBRIE LINE—	at May 1917).	on	 4-12-05 4-12-15 5 17-3-16	9 08 4 29 17 07 1 59	9:08		
Tadeli to Glugus (sanctioned on 31s Tadeli to Glugus (sanctioned on 31s FADRUPLE LINE— Victoria Terminus so Curry Road Curry Road to Thana Thana to Kalyan OUBLE LINE— NORTH-KART LINE— Man line—	at May 1917).	on	 4-12-05 4-12-15 17-3-16 1-3-17	9 08 4 29 17 07 1 59 6 67	9:08		+Tladi
Tachii to Ghugus (anotioned on 31st Tachii to Ghugus (anotioned on 31st Index of the State of th	at May 1917).	on	4-12-05 4-12-15 5 17-3-18 1-3-17	9 08 4 29 17 07 1 59 6 67	9:08		the quadr
Tadvil to Glugus (sanctioned on 31st Tadvil to Glugus (sanctioned on 31st Advil to Glugus (sanctioned on 31st Advil to Grant Fanct of Thana Thana to Kalyan Thana to Kalyan Thana to Kalyan Thana to Kalyan Kalyan to Vashind	at May 1917).		4-12-05 4-12-15 { 17-3-16 } 1-3-17 { 1-4-77 { 1-5-54 22-10-66	9 08 4 29 1707 1 59 6 67 2 84 † 2 44 1614	9:08		the quadr
Tadvil to Glugus (sanctioned on 31s Tadvil to Glugus (sanctioned on 31s Tadvil to Glugus (sanctioned on 31s Tadvil to Glugus (sanctioned on 31s Tadvil to Glugus (sanctioned on 31s Thana to Kalyan Valyan to Vasind Valand to Vasind Valand to Atgaon Atgaon to Kasarn	at May 1917).		 4-12-05 4-12-15 17-3-18 1-3-17 1-5-54 22-10-66 20-2-67 25-4-67	9 08 4 29 1707 1 59 6-67 2 84 † 2 24 1614 9 95	9:08		the quadr
Tadvil to Glugus (sanctioned on 31s Tadvil to Glugus (sanctioned on 31s Tadvil to Glugus (sanctioned on 31s Tadvil to Glugus (sanctioned on 31s Tadvil to Glugus (sanctioned on 31s Thana to Kalyan Valyan to Vasind Valand to Vasind Valand to Atgaon Atgaon to Kasarn	at May 1917).		 4-12-05 4-12-15 17-8-16 1-3-17 1-5-54 22-10-66 20-2-67 25-4-67 1-1-65	9 08 4*29 1707 1*59 6-67 2:84 16'14 16'14 9:65 15'94	9:08		the quadr
Taging collery former— Tsabili to Glugus (sanctioned on 31s Graph Roll to Terminus to Curry Road Curry Road to Thana Thana to Kalyan Thana to Kalyan Thana to Kalyan Kalyan to Varind Vasind to Atgron Adgeon to Kasarn Kasara to Lawarn Kasara to Kasarn Kasara to Kasarn Kasara to Kasarn Kasara to Researn	at May 1917).		4-12-05 4-12-15 17-3-16 1-3-17 1-5-54 22-10-66 20-2-67 25-4-67 1-1-65 10-1-69 17-3-69	9 08 4*29 17:07 1*59 6-67 2:84 16:14 19:45 15:59 18:04 16:05	9:08		the quadr
Tadvii to Giugne (sanctioned on 31s GRADUPLE LINE— Victoria Terminus to Curry Road Curry Road to Thana Thana to Kalyan VICTE LINE— Main Line— Main Line— Main Line— Mana to Kalyan Kalyan to Vasind Vasind to Atgron Atgron to Kasyan Kasyan to Lesser Kasyan to Kasyan Kasyan to Kasyan Kasyan to Reserve Kasyan to Kasyan Kasyan to Pechera	at May 1917).		4-12-05 4-12-15 5 17-3-18 1 1-3-17 1 1-5-54 22-10-66 20-2-67 1-1-65 10-1-69 17-3-69 27-5-69	9 08 4'29 17:07 1'59 6-67 2:84 16:14 16:14 16:44 16:49 16:49 16:40	9:08		the quadr
Tadvii to Giugne (sanctioned on 31s GRADUPLE LINE— Victoria Terminus to Curry Road Curry Road to Thana Thana to Kalyan VICTE LINE— Main Line— Main Line— Main Line— Mana to Kalyan Kalyan to Vasind Vasind to Atgron Atgron to Kasyan Kasyan to Lesser Kasyan to Kasyan Kasyan to Kasyan Kasyan to Reserve Kasyan to Kasyan Kasyan to Pechera	at May 1917).		412-05 412-15 412-15 517-3-16 1-3-17 1-5-54 22-10-66 20-26-7 25-4-67 1-1-65 1-1-65 1-1-65 6-3-73 6-3-73	9 08 4*29 17:07 1*59 6-67 2:84 † 2:44 16:14 9:95 130:54 16:05 9:14 27:59	9:08		the quadr
Tabili to Glugus (canotioned on 31s Tabili to Glugus (canotioned on 31s IADRUPLE LINE— Victoria Terminus to Curry Road Curry Road to Thana Thana to Kalyan WHILE LINE— Main line— Thana to Kalyan Kalyan to Vanind Vasind to Atgaon Atgaon to Kasara Kasara to Igatpuri Igatpuri to Kojaon Kalyan to Kojaon Kalyan to Kojaon Kalyan to Kojaon Hangaon to Kalyan Handli to Binsaval Bhali to Binsaval Hanaval to Bhasaval Junction	t May 1917).		412-05 412-15 412-15 517-3-16 1-3-17 1-5-54 22-10-66 20-26-7 25-4-67 1-1-65 1-1-65 1-1-65 6-3-73 6-3-73	9 08 4 29 17:07 1:59 6-67 2 84 † 2 44 16:14 9 :65 15:94 9 :89 130:24 16:14 9 :74 9 :74 9 :74 9 :74	9:08		the quadr
Tsa'ili to Ghugus (sanctioned on 31s Tsa'ili to Ghugus (sanctioned on 31s Grant Corry Hoad Carry Road to Thana Trans to Kalyan Thana to Kalyan Thana to Kalyan Thana to Kalyan Kalyan to Vasind to Thana to Kalyan Kalyan to Vasind Vasind to Kalyan to Bhadii Bhadii to Bhadii Bhadii to Bhasayal Junction Bhasayal Junction Bhasayal Junction Bhasayal Junction Bhasayal Junction Bhasayal Junction Bhasayal Junction to Khandwa (Ab	t May 1917).		412-05 412-15 412-15 173-16 1-3-17 22-10-06 30-2-67 11-3-20 11-3-3-20 11-3	9 08 4'99 17:07 1:59 6-67 2:84 16:14 9:65 15:94 9:89 130:44 27:99 784 0:60 74:53	9:08		the quadr
ABUPLE LINE— Victoria Terminus to Curry Road Curry Road to Thana Thana to Kalyan Thana to Kalyan Thana to Kalyan Thana to Kalyan Thana to Kalyan Thana to Kalyan Valid to Augus Kalyan to Vashind Vashind to Atgaon Atgaon to Kasara Kasara to Igatpuri Igatpuri to Kajgaon Kajaon to Pachora Pachora to Buhagi Mahoji to Bhusaval Bhusaval Junction to Khandwa (Ab Khandwa to Barsa Khandwa to Bhusaval Junction to Khandwa (Ab Khandwa to Itarsi	t May 1917).		412-05 412-15 412-15 517-3-16 1-3-17 1-5-54 22-10-66 20-26-7 25-4-67 1-1-65 1-1-65 1-1-65 6-3-73 6-3-73	9 08 4 29 17:07 1:59 6-67 2 84 † 2 44 16:14 9 :65 15:94 9 :89 130:24 16:14 9 :74 9 :74 9 :74 9 :74	9:08		the quadr
ABUPLE LINE— Victoria Terminus to Curry Road Curry Road to Thana Thana to Kalyan Thana to Kalyan Thana to Kalyan Thana to Kalyan Thana to Kalyan Thana to Kalyan Valid to Augus Kalyan to Vashind Vashind to Atgaon Atgaon to Kasara Kasara to Igatpuri Igatpuri to Kajgaon Kajaon to Pachora Pachora to Buhagi Mahoji to Bhusaval Bhusaval Junction to Khandwa (Ab Khandwa to Barsa Khandwa to Bhusaval Junction to Khandwa (Ab Khandwa to Itarsi	t May 1917).		412-05 412-15 417-3-16 1-3-17 1-5-54 23-0-66 29-8-67 25-4-67 10-1-69 17-3-69 17-3-69 17-3-69 17-3-69 17-3-69 17-3-69 17-3-69 17-3-69	9 08 4'29 1707 1'59 6-67 2'84 + 2'44 16'15 15'94 9 99 190'54 16'05 9'14 2'7'94 6'7'94 110'48	9.03		the quadr
Tsd-ii to Ghugus (sanctioned on 31s Tsd-ii to Ghugus (sanctioned on 31s Gradult to Ghugus (sanctioned on 31s Gradult to Ghugus (sanctioned on 31s Gradult to Gradult	t May 1917).			9 08 4 '29 17-07 1 '59 6-67 2 '84 † 2 '44 1 19 45 1 594 9 '88 130 '54 16 '05 9 '14 2 '7-99 7 '64 0 '60 7 4 '52 110 '48	9.03		the quadr
Tsavili to Ghugus (sanctioned on 31s GR ADRUPLE LINE— Victoria Terminus to Curry Road Curry Road to Thana Thana to Kalyan WILLINE— ORTH-E-SAT LINE— Main Line— Than to Kalyan Kalyan to Vasilul Vasilul to Atgaon Atgaon to Atgaon Atgaon to Kasara K Kasara to Igatpuri Igatpuri to Kajgaon Kajaon to Pachora Pachora to Bhusaval Bhusaval Junction to Khandi to Bhusaval Junction to Khandwa (Ab Khandwa to Harsi Rombay Harbour Brunch— Bany Road Station to Kurla Mahin Chord— Bayali to Mahin	t May 1917).		412-05 412-15 417-3-16 1-3-17 1-5-54 23-0-66 29-8-67 25-4-67 10-1-69 17-3-69 17-3-69 17-3-69 17-3-69 17-3-69 17-3-69 17-3-69 17-3-69	9 08 4'29 1707 1'59 6-67 2'84 + 2'44 16'15 15'94 9 99 190'54 16'05 9'14 2'7'94 6'7'94 110'48	9·03 29·62 33·86 6·19		the quadr
Tadvii to Giugus (sanctioned on 31s GR ADRUPLE LINE— Victoria Terminus to Curry Road Curry Road to Thana Thana to Kalyan Thana to Kalyan Thana to Kalyan Thana to Kalyan Thana to Kalyan Valyan to Vasinil Vasina to Karan Kasara to Luxtpuri Lyatpuri to Kajaon Kasara to Lixtpuri Lyatpuri to Kajaon Kajaon to Pachora Pachora to Mahoji Mahoji to Bhadii Bhadii to Bhusaval Bhusaval to Bhusaval Junction to Khaudwa (Ab Khandwa to Itara Bombay Harbour Brunch— Bay Road Station to Kurla Marail to Mahim OUTR-East LINE—	t May 1917).		412-05 412-15 5173-16 1-3-17 1-5-54 22-10-66 302-26-7 1-1-65 102-26-67 12-8-69 173-89 173-89 16-10-05 16-10-05 2-12-10	9 08 4 29 17:07 1:59 6:67 2 64 † 2:44 16:14 9:65 15:94 9:89 190:54 16:05 7:40 27:10 110:48 6:19	9:03		the quadr
Tadvit to Glugus (sanctioned on 31s GRADUPLE LINE— Victoria Terminus to Curry Road Curry Road to Thana Thana to Kalyan WHLE LINE— Main Line— Main Line— Main to Kalyan Kalyan to Vasind Vasind to Atgaon Atgaon to Kasara Kasara to Igalpuri Kasara to Igalpuri Kasara to Igalpuri Kasara to Igalpuri Kasara to Igalpuri Bandi to Bunsaval Bhadil to Bhadil Bhadil to Bhadil Bhadil to Bhadil Bhasaval Junction to Khandwa (Ab Khandwa to Itarsi Bombay Harbour Brunch— Rayal to Mahin OUTH-EAST LINE— Main time— Main time— Main time— Main time— Main time— Main time— Main time— Main time— Main time— Kalyan to Paladhari	t May 1917). AND TOTAL.		412-05 412-15 5173-16 1-3-17 1-5-54 22-10-66 302-26-7 1-1-65 102-26-67 12-8-69 173-89 173-89 16-10-05 16-10-05 2-12-10	9 08 4'29 17:07 1:59 6-67 2:84 15:14 9:65 16:05 16:05 7:44 0:80 7:44 0:80 7:45 110:48 6:19	9·03 29·62 33·86 6·19		the quadr
Tadvit to Glugus (sanctioned on 31s GRADUPLE LINE— Victoria Terminus to Curry Road Curry Road to Thana Thana to Kalyan WHLE LINE— Main Line— Main Line— Main to Kalyan Kalyan to Vasind Vasind to Atgaon Atgaon to Kasara Kasara to Igalpuri Kasara to Igalpuri Kasara to Igalpuri Kasara to Igalpuri Kasara to Igalpuri Bandi to Bunsaval Bhadil to Bhadil Bhadil to Bhadil Bhadil to Bhadil Bhasaval Junction to Khandwa (Ab Khandwa to Itarsi Bombay Harbour Brunch— Rayal to Mahin OUTH-EAST LINE— Main time— Main time— Main time— Main time— Main time— Main time— Main time— Main time— Main time— Kalyan to Paladhari	t May 1917). AND TOTAL.			9 08 4'99 17:07 1:59 6:67 2:84 16:14 9:65 15:04 9:89 130:04 10:14 27:99 10:00 74:02 110:48 6:19 1:90	9·03 29·62 33·86 6·19		the quadr
Tabili to Glugus (sanctioned on 31s Tabili to Glugus (sanctioned on 31s Graph Courty Hood to Thana Thana to Kalyan When Harry Ling Man line— Thana to Kalyan Kalyan to Vasind Vasind to Atgaon Atgaon to Kasara Kalyan to Vasind Vasind to Atgaon Atgaon to Kasara Kasara to Igatpori Kalyan to Padeora Pachora to Baddi Bhadil to Bhusaval Bhusaval to Bhadil Bhadil to Bhusaval Junction Bhusaval to Bhadil Bhadil to Bhusaval Bombay Harbour Brunch— Reay Road Station to Kurla Mahin Chord— Ravali to Mahini Outre-East Ling— Man ine— Man ine— Man ine— Kalyan to Paladdari Kalyan to Paladdari Kalyan to Paladdari Kalyan to Paladdari Kalyan to Paladdari Kalyan to Paladdari Kalyan to Paladdari Kalyan to Paladdari Kalyan to Paladdari Kalyan to Paladdari Kalyan to Paladdari Kalyan to Paladdari Kalyan to Paladdari Kalyan to Paladdari	t May 1917). AND TOTAL.		412-05 412-15 412-15 17-3-16 1-3-17 1.4-17 2.5-54 22-10-66 20-2-67 1-1-65 10-1-69 17-3-69 17-3-69 17-3-69 17-3-69 11-1-89 16-10-05 2-12-10 12-8-14 25-7-70 14-5-68 14-6-88 29-5-07	9 08 4'29 17:07 1'59 6-67 2:84 † 2:44 16'15 15'94 9:89 190'54 16'05 9'14 27:59 1742 2 110'48 6'19 1:80 30'61	9·03 29·62 33·86 6·19		the quadr
Tachii to Ghugus (canetioned on 31st Tachii to Ghugus (canetioned on 31st Tachin to Ghugus (canetioned on 31st Tachin to Ghugus (canetioned on 31st Tachin to Kalyan (canetioned on 31st Tachin to Sholaryadi (canetioned on 31st Tachin to Talegaon Talegaon to Sholaryadi (canetioned on 31st Tachin to Talegaon Talegaon to Sholaryadi (canetioned on 31st Tachin to Talegaon to Sholaryadi (canetioned on 31st Tachin to Canetioned on 31st Tach	t May 1917). AND TOTAL.		412-05 4-12-15 4-12-15 1-3-17 1-5-54 23-0-66 39-2-67 25-4-67 10-1-69 17-3-69 17-3-69 17-3-69 11-7-92 11-7-92 11-7-92 11-7-92 11-7-92 11-8-14 25-7-70 14-8-82 29-5-07 29-5-82	9 08 4 '29 1707 1 '59 6-67 2 '84 † 2 '44 16 '15 9 '15 15 '94 16 '05 9 '14 2 '2*99 10 '05 11 '048 6 '19 1 '90	9·03 29·62 33·86 6·19		the quadr
Taddit to Ghugus (canotioned on 31s GR JADRUPLE LINE— Victoria Terminus to Curry Road Curry Road to Thana Thana to Kalyan ONDER LINE— Man line— Man line— Man line— Man line— Man line— Man line— Man line— Man line— Man line— Man line— Man line— Man line— Man line— Man line— Man line— Man line— Man line— Man line— Kasara to Ligatpuri Igatpuri to Kajaon Kasara to Igatpuri Igatpuri to Kajaon Kajaon to Rasara Kasara to Bhadil Bhadil to Bhusaval Bhusaval linetion to Khandwa (Ab Khandwa to Itarai Bombay Harbour Branch— Ray Road Station to Kurla Mahin Chord— Ravali to Mahin Sourn-East LINE— Man line— Kalyan to Palsadhari Falsadhari to Khandula Khandala to Lonavia Lonavia to Karla Karla to Talegaon to Sholarwadi Talegaon to Sholarwadi	t May 1917). AND TOTAL.		412-05 412-15 412-15 173-16 1-3-17 21-0-54 22-10-66 10-3-25 1-4-66 10-3-25 1-4-66 11-3-69 12-3-69 12-3-69 12-3-69 12-3-69 13-3-69	9 08 4'29 17:07 1'59 6-67 2:84 † 2:44 16'15 15'94 9:89 190'54 16'05 9'14 27:59 1742 2 110'48 6'19 1:80 30'61	9·03 29·62 33·86 6·19 1·30		the quadr
Taddit to Ghugus (canotioned on 31s Taddit to Ghugus (canotioned on 31s GR TADRUPLE LINE— Victoria Terminus to Curry Road Curry Road to Thana Thana to Kalyan ONDER KART LINE— Man tine— Man tine— Thana to Kalyan Kalyan to Vasind Vasind to Atgron Atgron to Kasara Kasara to Ligatpuri Igatpuri to Kajaon Kajaon to Raberi Kasara to Dashora Paohora to Mahoji Mahoji to Bhadii Bhadii to Bhusaval Bhusaval Junction to Khandwa (Ab Khandwa to Bhasaval Junction Bhusaval to Bhasaval Junction Bhusaval to Bhasaval Junction Bhusaval to Bhasaval Junction Bonday Harbour Brunch— Bay Road Station to Kurla Mahoin Chord— Ravali to Mahim SOUTH EAST LINE— Kalyan to Palaschari Palaschari to Khandala Khandala to Lonavia Lonavia to Karla Karla to Talegaon Talegaon to Sholarwadi Saciarvadi to Poona Nayrue Iranch In Bolandii to Romand Sayrue Iranch Talegaon to Sholarwadi Saciarvadi to Poona Nayrue Iranch Talegaon to Bolaswadi Sarlarvadi to Poona Nayrue Iranch Talegaon to Bolaswadi Sarlarvadi to Poona Nayrue Iranch Lo Romanda Lo Bolandi Rayrue Iranch Talegaon to Bolaswadi Sarlarvadi to Poona	t May 1917). AND TOTAL.		412-05 412-15 4173-16 1 -3-17 1 -5-54 22-10-66 302-26-7 1-1-69 107-36-9 6-7-3 1-1-1-89 16-10-2 11-1-89 14-5-8 14-6-8	9 08 4 29 17:07 1:59 6-67 2 84 † 2:44 16:14 9 :65 15:54 9 :89 7:44 0 :80 7:45 110:48 6:19 1:90 30:61 15:20 2 :85 1:54 18:51 15:46 17:98	9·03 29·62 33·86 6·19		the quadr
Taddit to Ghugus (canotioned on 31s Taddit to Ghugus (canotioned on 31s GR TADRUPLE LINE— Victoria Terminus to Curry Road Curry Road to Thana Thana to Kalyan ONDER KART LINE— Man tine— Man tine— Thana to Kalyan Kalyan to Vasind Vasind to Atgron Atgron to Kasara Kasara to Ligatpuri Igatpuri to Kajaon Kajaon to Raberi Kasara to Dashora Paohora to Mahoji Mahoji to Bhadii Bhadii to Bhusaval Bhusaval Junction to Khandwa (Ab Khandwa to Bhasaval Junction Bhusaval to Bhasaval Junction Bhusaval to Bhasaval Junction Bhusaval to Bhasaval Junction Bonday Harbour Brunch— Bay Road Station to Kurla Mahoin Chord— Ravali to Mahim SOUTH EAST LINE— Kalyan to Palaschari Palaschari to Khandala Khandala to Lonavia Lonavia to Karla Karla to Talegaon Talegaon to Sholarwadi Saciarvadi to Poona Nayrue Iranch In Bolandii to Romand Sayrue Iranch Talegaon to Sholarwadi Saciarvadi to Poona Nayrue Iranch Talegaon to Bolaswadi Sarlarvadi to Poona Nayrue Iranch Talegaon to Bolaswadi Sarlarvadi to Poona Nayrue Iranch Lo Romanda Lo Bolandi Rayrue Iranch Talegaon to Bolaswadi Sarlarvadi to Poona	t May 1917). AND TOTAL.		412-05 412-15 4172-16 1-3-17 1-5-54 220-06 30-4-07 1-1-65 10-1-65 10-1-65 10-1-65 11-1-89 10-1-65 11-1-89 10-1-65 11-1-89 10-1-05 11-1-89 11-1-89	9 08 4 29 17:07 1:59 6-67 2 84 † 2:44 16:14 9 :65 15:54 9 :89 7:44 0 :80 7:45 110:48 6:19 1:90 30:61 15:20 2 :85 1:54 18:51 15:46 17:98	9·03 29·62 33·86 6·19 1·30		the quadr
DEBUPLE LINE— Victoria Terminus to Curry Road Carry Road to Thana Thana to Kalyan OURLE LINE— Norne-Eart LINE— Man Ine— Thana to Kalyan Kalyan to Vasind Vasind to Atgaon Atgaon to Kasara Kasara to Igatpuri Igatpuri to Kajaon Kajgaon to Kasara Kasara to Igatpuri Igatpuri to Kajaon Kajgaon to Fachora Fachora to Mahoji Bhali to Bhasaval Bhusaval Junction to Khandwa (Ab Khandwa to Harsi Bombay Harbour Brunch— Ray Road Station to Kurla Mahin Chord— Rayali to Mahini Kalyan to Palasdhari Palasdhari to Khandula Khandala to Lonavia Lonavia to Karla Karla to Talegaon Talegaon to Kajara Kayan to Palasdhari Palasdhari to Khandula Khandala to Lonavia Lonavia to Karla Karla to Talegaon Talegaon to Sholarwadi Saciarvadi to Poona Nayur Iranch— Rayur to Romand	t May 1917). AND TOTAL.		412-05 412-15 4172-16 1-3-17 1-5-54 220-06 30-4-07 1-1-65 10-1-65	9 08 4 29 17-07 1 159 6-67 2 24 16 14 16 14 19 28 16 05 19 14 27-59 16 05 110 48 6 19 1 290 30 61 15 20 2 85 4 92 17 15 46 17 96 46 492 46 498 46 49	9·03 29·62 33·86 6·19 1·30		the quadr
Tachili to Ghugus (canotioned on 31st Tachili to Ghugus (canotioned on 31st Tachili to Ghugus (canotioned on 31st Tachili to Ghugus (canotioned on 31st Tachili to Ghugus (canotioned on 31st Tachili to Ghugus (canotic Ghugu	t May 1917). AND TOTAL.			9 08 4 29 17:07 1:59 6:67 2:84 † 2:44 16:14 9:65 15:54 9:89 19:05 74:53 110:48 6:19 1:30 30:61 15:49 2:35 4:92 13:55 7:777 13:46 6:49 4:55:50	9·03 29·62 33·86 6·19 1·30		the quadr
Tachili to Ghugus (canotioned on 31st Tachili to Ghugus (canotioned on 31st Tachili to Ghugus (canotioned on 31st Tachili to Ghugus (canotioned on 31st Tachili to Ghugus (canotioned on 31st Tachili to Ghugus (canotic Ghugu	t May 1917). AND TOTAL.		412-05 412-15 412-15 1-3-17 1-5-54 22-10-67 30-2-67 30-2-67 30-2-67 30-2-7 3-69 27-3-69 27-3-69 11-1-89 16-10-05 2-12-10 12-8-14 25-7-70 14-5-63 14-6-58 29-5-98 11-1-89 13-5-98 11-1-89 13-5-98 11-1-89 13-5-98	9 08 4 29 17-07 1-59 6-67 2 24 16 14 16 14 9 05 16 05 16 05 16 05 16 05 16 05 17 24 18 27:59 110 48 6 19 1 30 2 25 4 92 115 46 17 96 4 48 4 96 4 96 4 96 4 96 4 96 4 96 4 96 4 96	9·03 29·62 38·86 6·19 1·30		the quadr
Tabili to Ghugus (canotioned on 31s GRADUPLE LINE— Victoria Terminus to Curry Road Curry Road to Thana Thana to Kalyan ONORHE-RAST LINE— Man line— Thana to Kalyan Kulyan to Vasind Vasind to Atgron Atgron to Kayan Kulyan to Vasind Vasind to Atgron Atgron to Kayan Kulyan to Usind Vasind to Ligatouri Igatpuri to Kajaon Kasara to Igatpuri Igatpuri to Kajaon Kajaon to Pachora Pachora to Mahoji Mahoji to Bhusaval Bhusaval Junotion Bhusaval Junotion to Khandwa (Ab Khandwa to Harsi Bombay Harbour Brunch— Baya Road Station to Kurla Mahin Chord— Ravali to Mahin Sourne East Line— Kalyan to Palasdhari Palasdhari to Khandala Khandala to Lonavia Lonavia to Karla Karla to Talegaon Talegaon to Sholarvadi Saciarvadi to Poona Nayour Iranch Mayour Iranch Talegaon to Bolarvadi Saciarvadi to Poona Nayour Iranch Talegaon to Bolarvadi Saciarvadi to Poona Nayour Iranch To Rodwad	t May 1917). AND TOTAL.			9 08 4 29 17:07 1:59 6:67 2:84 † 2:44 16:14 9:65 15:54 9:89 19:05 74:53 110:48 6:19 1:30 30:61 15:49 2:35 4:92 13:55 7:777 13:46 6:49 4:55:50	9·03 29·62 33·86 6·19 1·30		†Exoludii the quadr ple section

Great Indian Peninsula railway (5' 6" gauge)-contd.

Progress in opening -conold.

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	Remarks.
1	2	3	4	5	6
Brought forward			716:08		
DOUBLE LINE—concld. Midland section—					
Agra cantonment to new Junction with Agra- Delhi Chord railway near Raja-ki-Mandi.	3-2-13	2.70			
Old Junction with Agra-Delhi Chord railway near Rais-ki-Mandi (mile 837:19) to terminal	3-2-13	0.88			
point of Belanganj goods Depot (mile 838'07). Junction near east mouth of tunnel (mile 837'58) to East Indian railway down point of Agra	8-2-13	0.01			
City (mile 887.57).			3.62		
TOTAL DOUBLE LINE .				719.70	

Details of construction-

Permanent-way .- On the Great Indian Peninsula railway proper, the main line is laid with 100-lb. bullheaded, 82-lb, bull-headed and 69-lb, double-headed steel rails. The sleepers originally laid were the South-East line, except the Ghat sections, is laid with iron pots. On the Midland section, the whole of the main line, the Manikpur branch, the Cawnpore branch from Jhansi to mile 326.64 and the line from Bina to Katni, are laid with 80-lb. flat-footed steel rails on cast-iron pot sleepers. The Cawnpore branch from mile 351 77 to Hamirpur Road is laid chiefly with 82-lb, bull-headed rails on cast-iron pot sleepers. The main line between Bombay and Igatpuri and Kalyan and Lonavla is being relaid with 100-lb. bull-headed rails on wooden sleepers.

Ballast.—The line is ballasted with sand, gravel, laterite, kuukur or stone.

Fencing.—With the exception of the Mohpani, Chalisgaon-Dhulia. Jalgaon-Amalner and Warora-Balharshah branches, the Great Indian Peninsula railway proper is fully fenced. On the Midland section the main line is fenced throughout and the branches are partially fenced.

Curves .- The sharpest curve has a radius of 990 feet on the Bhore Ghat, between miles 75 and 76, The next sharpest curve has a radius of 1,056 on the Thull Ghat, between miles 78 and 79.

Gradients.—On the Great Indian Peniusula railway proper the ruling gradients on ordinary sections of the main line vary from 1 in 100 to 1 in 200, with 1 in 100 banking sections near Vasind and Asvali; the ruling gradient on the Ghat sections is 1 in 37. On the Midland section the ruling gradient between Bhopal and Jhansi is 1 in 200; between Jhansi and Agra 1 in 150 and between Jhansi and Manikpur 1 in 125. The Jhansi Cawnpore branch is practically level, except at bridge approaches where the gradients are 1 in 250 and 1 in 300, and between Jhansi and Garhman where it is 1 in 200.

Contracts-

Dated the 21st December 1900 (called the principal contract), between the Secretary of State and the Great Indian Peniusula Railway Company, as to the maintenance, management and working, by the Company, as one undertaking, of the railways known as the Great Indian Peninsula railway

system and the Indian Midland railway system, and the subsidiary lines included therein.

Dated the 24th April 1903 (supplemental to the contract of 1900), between the Secretary of State and the Great Indian Peninsula Railway Company, as to the adoption of 1s. 4d. per rupee as the " prescribed " rate of exchange.

Dated the 4th August 1908 (supplemental to the contracts of 1900 and 1903), between the Secretary of State and the Great Indian Peninsula Railway Company, as to Debenture stock.

Dated the 1st August 1913 (supplemental to the contracts of 1900, 1903 and 1908), between the Secretary

of State and the Great Indian Peninsula Railway Company, for working the Nerbudda colliery.

Dated the 3rd July 1914 (supplemental to the contracts of 1900, 1903, 1908 and 5th February*and 19th *Sec under Agra-Delhi Chord railway. † See under Baran-Kotah railway. March † 1909), between the Secretary of State and the Great Indian Peniusula Railway Company, as

to the adoption of the Government financial year for the preparation of accounts.

Main provisions of contracts-

- (i) Land.—Originally, i.e., up to the 30th June 1900, was provided by the Government free of cost to the Company; that acquired thereafter is provided by the Government to the Company at the cost of capital.
- (ii) Government aid.—Guarantee of interest at 3 per cent on the new capital of the Company.
- (iii) Distribution of profits.—The working expenses of the whole undertaking are divided half-yearly between and attributed to the systems, in proportion to the gross receipts of each (the branch lines in Berar being treated as part of the Great Indian Peninsula Railway system).

From the gross receipts of each of the systems is deducted the share of its working expenses apportioned as aforesaid; and the gross carnings of each subsidiary line is charged with a share of the working expenses attributed to the system to which it belongs in the ratios which the gross receipts of such subsidiary lines bear to those of that system.

The net earnings of each year are applied :-

- (1) in payment to the Secretary of State of the sum of Rs. 2,00,00,000;
- (2) in repayment to the Secretary of State in rupees of all interest payable in respect of such year on all money raised after 30th June 1900 by the Company with the sanction of the Secretary of State for the purpose of the undertaking otherwise than by the issue of shares or capital stock, or provided by the Secretary of State after the same date.

Great Indian Peninsula railway (5'6" gauge)—concld.

Main provisions of contracts—concld.

Any surplus to be divided between the Government and the Company in the proportion of #8ths to the former and 210th to the latter. If the Company shall with the sanction of the Secretarry of State increase its new capital and issue further shares or stock as fully paid up, the Company's share in such surplus as aforesaid shall thenceforth be increased by an additional fractional share bearing the same proportion to the original fractional share of η_{i0} as the additional capital of the Company shall bear to the authorised capital of £2,575,000, but so that the

- fractional share shall in no event exceed $\frac{1}{10}$.

 (iv) Rates and fares.—Maximum and minimum rates and fares and classification of passengers and goods to be as authorised by the Government.
- (v) Special obligations as to the conveyance of—

 (a) Mails, troops, high Government officials, and Government stores.—To be conveyed on the same general conditions as those in force on State railways, and at rates to be approved by the Government (not being less than the rates in force for similar services on State railways of the same gauge).
- (b) Government bullion and coin, and the persons in charge thereof.—At special rates to be approved by the Government,

 (vi) Power of the Government to determine contract—
- over of the Government to determine contract—

 To the 80th June 1925 the Company are been of the Company to surrender contract.—

 To give the Secretary of State possession of the undertaking, and the Secretary of State is to pay to the Company the amounts paid up, or credited as paid up, on all shares or stock then existing in the Company's new capital. "On the 80th June 1925 the Company are (vii) Power of the Company to surrender contract .-
- (viii) Term of contract. -25 years from 1st July 1900.

Statistics of working -(Those for the periods prior to 1901 will be found in Appendix 38 to the Railway Administration Report for 1907.)

Year,	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Chana	Net earnings.	Per- coutage of net earning- con total capital outlay given in column (3).		Annuity.	Company's share of surplus profits (based on terms of contract) attributable to each year.	Gain or loss to the State perfaining to such year.	Earn- ings per mile per week.	Proportion of expenses to earnings.
- ₁	2	3	4	5	6	7	8	9	10	_11_	12
1901 . 1902 . 1908 . 1906 . 1907 . 1908 . 1909 . 1910 . 1911 . 1911 . 1912 . 1st gr.	Milo - 1,748 27 1,561 63 1,561 63 1,561 63 1,561 63 1,561 63 1,561 63 1,599 41 1,599 53 1,606 24 42 2,420 40 2,419 33	8s. 30,64,49,134 30,88,53,092 31,08,58,055 32,007,2108 32,65,20,022 33,57,64,972	Rs. 4,16,87,453 4,24,25,217 4,68,61,584 4,82,41,344 4,82,41,344 5,22,33,877 5,05,23,479 5,22,26,77,202 5,27,26,707 5,84,47,31 7,84,44,741 7,84,44,741	Ra. 2,16,18,151 2,10,98,968 2,38,12,514 2,41,79,728 2,70,20,15,559 1,76,80,213 2,33,43,94 2,58,66,771 3,69,34,275 1,07,43,557	7:06 6:84 7:66 7:55 8:28 7:54 7:07 4:73 6:08 6:67 6:09 6:74	Rs. 48,06,916 41,58,679 50,67,701 53,19,948 57,50,859 61,23,516 61,14,699 68,63,220 72,63,545 74,48,102 1,92,37,381 1,33,36,641 34,21,681	Ka, 1,00,87,970 1,90,56,785 1,90,28,730 1,90,28,535 1,90,28,535 1,90,28,535 1,90,28,340 1,90,28,340 1,90,28,340 1,90,28,340 1,90,28,340 1,90,28,340 1,90,28,340 1,90,28,340 1,90,28,340 1,90,28,340 1,90,28,340 1,90,28,340	Rs. 1,97,661* 2,61,702 3,79,633 3,84,935 5,28,413 4,46,777 4,28,308 04,298 4,60,763 2,11,031 6,30,327 3,08,487	Rs25,34,306 -31,81,198 -6,93,550 -5,53,750 -2,96,928 -6,15,748 -82,9,645 -39,47,991 -11,30,449 -2,94,992 +39,40,203 +22,56,754	HA. 518 523 575 592 641 623 649 563 684 705 578 688	48:03 50:19 49:18 49:88 48:27 49:92 52:88 62:24 57:62 56:14 55:38 54:00
14.	2,481.03	59,49,23,530	8,57,95,516	3,40,52,063		1,49,18,233	1,90,28,043	4,01,512	-2,95,725	664	60.31
15. 1915-	2,499.64	62,57,62,657	7,71,55,244	2,86,15,825		1,35,09,055	1,42,26,985	63,799	+ 8,15,996	593	62.91
1916-	2,554-35	65,18,51.816	9,04,19,770	3,87,73,463	4.95	1,71,15,055		5,20,228	+21,10,470	681	57.12
1917-	2,551.71	65,77,23,935 66,55,45,487	9,74,13,438 10,61,08,431	4,50,10,038 4,94,99,571		1,70,18,950 1,76,88,691	1,90,27,680	7,94,697 10,02,459	+81,38,711	734 799	58·79 53·35

*From 1st July 1900 to 31st December 1901.

Agra-Delhi Chord railway (5' 6"gauge)—

This railway has been constructed by the State and is worked by the Great Indian Peninsula Railway Company.

Progress	in openi	ng-

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.
1	2	3	4	5
Main line— Raja-ki-Mandi (Agra) to Kosi Kosi to Dolhi Sadr. Delni Sadr to Dolhi Sadr. Delni Sadr to Dolhi Sadr. Delni Sadr to Dolhi Sadr. Delni Sadr. Delni Sadr. Delni Sadr. Delni Sadr. Delni Chord railway. Bronch— Kosi to Sanket	3-12-04 15-11-44 1-8-05 15-10-11 24-9-06	62-62 0-43 0-22	119-98 5-95	
TOTAL .				125.88
DOUBLE LINS— Junction point near Raja-ki-Mandi to centre of Bilochp station. Loop line concerting Agra-Dulki (florad railway with Dr cop line consecting Agra-Dulki (florad railway with Dr cop line to Lathen and Bountaine Rauba milways) Gatok point No. 9 at Bombay wend of Dulki Rader Yard terminal point of Agra-Dulki (flored railway).	8-9-13 15-10-11	0°92 1'91		

Agra-Delhi Chord railway (5' 6" gauge) -concld.

Details of construction-

Permanent-way. - The main line is laid with 85-lb. bull-headed steel rails on 45-lb. cast-iron chairs spiked with 3 spikes to deodar sleepers, and the branch is laid with 75-lb. flat-footed steel rails. second hand, on dog-spiked deodar sleepers.

Ballast.—The line is ballasted with kunkur soling and stone ballast to bring it up to full section.

Fencing.—The line is fully fenced.

Curves.—The sharpest curve is of 950 feet radius.

Gradients.—The ruling gradient is 1 in 400, except between Raja-ki-Mandi Junction and Bilochpura (Agra) and between Delhi Sadr and Delhi Junction where it is 1 in 200 and 1 in 383, respectively.

Contracts

Dated the 21st December 1900 (called the principal contract), between the Secretary of State and the Great Indian Peninsula Railway Company, as to the maintenance, management and working, by the Company, as one undertaking, of the railways known as the Great Indian Peninsula railway system, and the Indian Midland railway system, and the subsidiary lines included therein.

Dated the 5th February 1909, between the Secretary of State and the Great Indian Pentusula Railway Company, as to the maintenance, management and working, by the Company, of the Agra-Delhi

Chord railway as part of the Indian Midlaud railway system of the Company's undertaking.

Dated the 3rd July 1914 (supplemental to the contracts of 1900 and 1909), between the Secretary of State and the Great Indian Peninsula Railway Company, as to the adoption of the Government financial year for the preparation of Accounts.

Main provisions of contracts-

(i) Land .- Provided by the Government at the cost of capital.

(ii) Government aid.—The line is the absolute property of the Government, which provide all the funds chargeable to capital, and it is managed, maintained and worked by the Great Indian Peninsula Railway Company as part of the Indian Midland Railway system of the Company's undertaking.

(iii) Terms of working.—The line is worked for the same proportion of the total working expenses of the undertaking, including this railway, as the gross earnings of this railway bear to the gross earnings of the whole undertaking, provided that no proportion in excess of 20 per cent of the gross receipts paid to any Railway Administration to whom running powers may be granted over the Agra-Delhi Cherd is debited in the General Working Expenses Account of the Company's undertaking, such excess, if any, being directly debited to the Revenue Account of the Agra-Delhi Chord railway as a separate charge against its receipts.

(iv) Distribution of profits. The whole of the net earnings of the railway belong to the Government.

(v) Rates and fures .-

(vi) Special obligations as to the conveyance of .-As noted under the Great (a) Mails, troops, police, high Government officials and Government Indian Peninsula. stores. railway.

(b) Government bullion and coin, and the persons in charge thereof .-

(vii) Power of the Government to determine contract .-

(viii) Power of the Company to surrender contract .-(ix) Term of contract .-

twelve calendar months' notice.

for traffic and is to continue in force until terminated, either by the Government or the Company, on the 30th September or 31st March by giving to the other party not less than

The contract is current from the day on

which the line was opened throughout

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Not earn- ings.	Percentage of net earnings on total capital outlay given in column (3).	Interest.	Gain or loss to the State pertaining to each year.	Earn- ings per milo per week	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10
1904 . 1905 .	Miles. 119:51 119:75	Rs. 1,05,90,556 1,22,46,927	Rs. 18,070 8,01,655	Rs. 9,992 4,19,625	0° 09 3°43	Rs. 2.95,164 4,20,181	Rs. -2,85,172 -556	R#. 22 140	41·70 17·85
1906 . 1907 . 1908 . 1909 .	125:99 125:99 125:66 125:66 125:66	1,27,96,307 1,28,37,917 1,28,12,755 1,30,68,563 1,34,32,595	16,46,320 16,15,900 15,17,793 14,74,866 17,65,732	8,15,363 7,45,489 5,70,112 6,22,196 7,52,601	5:81 	4,70 283 4,09,625 4,34,834 4,35,293 4,45,949	+ 3,45,080 + 3,35,864 + 1,35,278 + 1,86,903 + 3,06,652	254 247 282 226 270	50:47 53:87 62:44 57:81 57:38
1911 . 1912 . 1st qr.	125:90 125:88	1,42,05,868 1,43,40,719	20,67,879 22,83,807	10,48,792	6: 0 8 7:31	4,67,506 4,58,760	+ 3,95,788 + 5,60,032	316 349	58:25 54:58
of 1918.	125 88 125 88	1,44,67,320 1,45,94,620	6,14,952 23,69, 2 74	2,80,382 9,21,034	1 94 6:31	1,22,470 5,08,329	+ 4,12,705	376 353	54 41 60·13
1914-15 . 1915-16 . 1916-17 . 1917-18 .	125:88 125:88 125:88 125:88	1,47,46,965 1,47,56,191 1,47,96,695 1,48,68,032	\$2,06,644 28,84 018 30,47,574 33,67,179	14,10,278	8·15 8·40 9·53 10·59	5,13,360 5,12,2 49 4,87,09 1 5,15,12c	+ 6,88.367 + 7,26,895 + 9,23,187 + 10,59,541	490 440 466 514	61: 52 57 0 2 53: 7 2 25:2 3

Baran-Kotah railway (5' 6" gauge)-

Progress in opening-

Sections of railway.										Date of opening.	Miles.	Total.				
					1									2	8	4
Baran to Antah . Antah to Kotah .	:	:	:	:	:	:	:	:	:	:		:	:	20-2-07 1-5-09	13.58 26.71	
										Tot	LVF				;	40-29

Details of construction-

Permanent-way. - The permanent-way consists of 87-lb, flat-footed steel rails and Australian or sal sleeper. Ballast.—The ballast consists of broken stone.

Fencing .- The line is not fenced.

Curves .- The sharpest curve is of 1,809 feet radius.

Gradients. - The ruling gradient is 1 in 150.

Contracts-

Dated the 21st December 1900 (called the principal contract), between the Secretary of State and the Great Indian Peninsula Railway Company, as to the maintenance, management and working, by the Company, as one undertaking, of the railways known as the Great Indian Peninsula railway system and the Indian Midland railway system, and the subsidiary lines included therein.

Dated the 19th March 1909, between the Secretary of State and the Great Indian Peninsula Roilway

Company, as to the maintenance, management and working, by the Company, of the Baran-Kotah railway as part of the Indian Midland railway system of the Company's undertaking.

Dated the 3rd July 1914 (supplemental to the contracts of 1900 and 1909), between the Secretary of
State and the Great Indian Peninsula Railway Company, as to the adoption of the Government financial year for the preparation of Accounts.

Main provisions of contracts-

on provisions of contracts...

As noted under Agra-Delhi Chord railway (5' 6" gauge), except that the charge for working expenses is not in any half-year to exceed 50 per cent of the entire gross receipts of the Baran-Kotah railway. (Note.—These terms had effect from the 1st July 1909, the date on which the Baran-Kotah Railway was handed over to the Great Indian Peninsula Railway Company for working, vide Railway Board's letter to the Engineer-in-Chief, Nagda-Muttra railway, No. 1022-R.T., dated the 7th June 1909. Prior to that date the charge was the same percentage as obtained for working the lines comprised in the Great Indian Peninsula railway undertaking, vide letter from the Agent, Great Indian Peninsula railway to the Secretary, Railway Board, No. 57-H.-5, dated the 15th April 1912.)

Statistics of working—

Your,	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Interest.	Gain or loss to the State pertaining to each year.	Earnings per mile per week.	Proportion of expenses to earnings.
l	2	3	4	5	6	7	8	9	10
1908 . 1 90 9 . 1 91 0 .	Miles. 13 58 40 29 40 29	Rs. 39,38,972 45,52,438 45,67,295	Rs. 3,536 48,152 1,03,829	Rs. 1,582 23,181 52,720	0.04 0.51 1.15	Rs. 1,29,811 1,49,921 1,51,068	Rs. -1,28,229 -1,26,740 -98,348	Rs. 10 28 50	55:26 51:86 49:22
1911 . 1 91 2 .	40°29 40°29	45,65,880 45,98,797	1,58,809 1,90,009	79,405 97,188	1·74 2·11	1,54,829 1,57,421	-75,424 -60,233	76 91	50 ·00 48·8 5
1st qr. of 1913.	40-29	46,47,772	38,663	19,334	0.42	39,301	-19,967	74	50.00
1913-14 .	40.29	46,47,772	1,77,507	88,754	1.91	1,62,688	-73,934	85	50.00
1914-15 . 1915-16 . 1916-17 . 1917-13 .	40·29 40·29 40·29 40·29	46,47,772 48,47,772 47,42,696 49,16,727	1,49,969 2,21,240 2,43,097 1,61,978	75,669 1,10,620 1,21,548 60,989	1:63 2:38 2:56 1:65	1,62,685 1,61,394 1,54,774 1,67,786	86,066 50,774 33,226 86,747	72 106 116 77	49.54 50.00 50.00 50.00

Bhopal-Itarsi railway (5' 6" gauge)-

Progress in opening-

Sections of railway.	Date of opening.	Mi'es.	Total.	Grand total.
1	2	8	4	5
Main line— Itard to Hoshangabad Hoshangabad to Bhopal	1-6-82 1-11-84	10:89 45:45		
Branch— Cautre of Bhopal station to the joint boundary of the Bhopal-Itarul and Indian Midland railways at Bhopal	11-11-95	0-88	0.88	
TOTAL				67-22

Bhopal Itarsi railway (5' 6" gauge)-contd.

netails of construction-

Permanent-way .- The line is laid with the Indian Midland railway 50-lb. flat-footed steel rails on Indian Midland railway cast-iron pot sleepers.

Ballast .- The line is fully ballasted throughout with broken stone.

Fencing .- The line is fenced throughout.

Curves.—There are no curves with a radius of less than 990 feet.

Gradients.—The ruling gradient is 1 in 200, except on the Ghat section, 11 miles, where it is 1 in 80.

Agreements and contract-

Agreement, dated the 16th September 1880, between the Government of India and Her Highness the Begum of Bhopal, as to the construction, management, maintenance and working, by the Government, of the Bhopal-Itarsi railway.

Agreement, dated the 30th June 1887, between the Government of India and Her Highness the Beaum of Bhopal, supplemental to, and modifying, the agreement of 1880.

Agreement, dated the 2nd December 1890, between the Government of India and Her Highness the Begum of Bhopal, supplemental to, and further modifying, the agreement of 1880.

Contract, dated the 21st December 1900 (called the principal contract), between the Secretary of State and the Great Indian Peninsula Railway Company, as to the maintenance, management and working, by the Company, of the railways known as the Great Indian Peninsula railway system and the Indian Midland railway system, and the subsidiary lines included therein.

Main provisions of agreements and contract-

- (i) Land. Land within the Bhopal State was provided free of cost by the Durbar; that within British territory by the Government at the cost of capital.
- (ii) Government aid.—The Government paid for the portion of the line in British territory, and a moiety of the cost of the bridge over the Nerbudda river; in all about Rupees 13,90,000: the Begum of Bhopal contributed Rupecs 50,00,000 for the portion of the line in her dominions.

All additional capital is to be provided by the Government, which undertook to construct, maintair, manage and work the line by State or other agency. At present the line is worked by the Great Indian Peninsula Railway Company as part of its undertaking.

- (iii) Terms of working.—For working and stocking the Bhopal-Itarsi railway the Great Indian Peninsula Railway Company receives a sum which bears the same proportion to the total working expenses of the Company's undertaking, including the Bhopal-Itarsi railway, as the gross earnings of the Bhopal-Itarsi railway bear to the gross earnings of the undertaking.
- (iv) Distribution of profits.—The net earnings are divided in perpetuity between the Government and the Ruler of Bhopal in proportion to the capital contributed by each. In the event of the railway being worked at a loss, such loss is borne by the two parties in the same proportion.
- (v) Rates and fares .-
- (vi) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Government officials and Government stores.-
 - (b) Government bullion and coin, and the persons in charge thereof.-
 - As noted under the Great Indian Peninsula Railway.
- (vii) Power of the Government to determine contract .-
- (viii) Power of the Company to surrender contract,-
- (ix) Term of contract .-

Bhopal-Itarsi railway (5'6" gauge)—concid.
Statistics of working (Those for the periods prior to 1889 will be found in Appendix 38 to the Railway-Administration Report for 1907).—

	Beopai-Itarsi (Bri		(Britis	H SEC	rion).					Внога	L-ITARS	i (Nativ	E STAT	r.		
Y ear.		Total ospital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	earn- ings.	Net caruings.	Per- sen- tage of net earn- ings on total capi- tal outlay given in col- umn (3).	In- terest.	Gain or loss to the State pertain- ing to each year.		Pro- por- tion of expen- ses to earn- ings.	Let and	each year i.e., outlay on (i) lines open, and	Gross earn- ings,	Net earn- ings.	Per- cent- age of net earn- ings on total capi- tal outlay giveu in col- umn (12).	Earn- ings per mile per week.	Pro- por- tion of expen- ses to earn- ings.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1889 . 1890 .	Miles. 13:00 13:00	Rs. 12,50,000 12,85,077	Rs. 79,163 87,765	Rs. -5,122 -16,572		its. 50,000 50,851	Rs. - 55,422 - 66,923		106·85		49,40,846		Rs. 18,351 56,093		Rs. 117 130	106·85 118·88
1801 . 1892 . 1893 . 1894 .	13 00 13 00 13 11 13 11 13 11	15,13,568 17,46,208 20,25,058 21,71,496 22,47,963	1,80,984 1,53,099 1,69,162 1,61,638 1,42,658	56,397 52,038 61,455	2·57 2·83	57,713 69,131 78,429 83,509 89,323	- 9,106 -12,734 -26,391 -22,051 -43,209	200 226 248 237 209	63°16 69°17 61°98	44.11 44.11 44.00 44.00 44.28	50,00,000 50,00,000 50,00,000 50,00,000 50,00,000	4,60,431 4,47,797 4,24,236 3,80,217 3,18,074	1,44,607	3·46 8·32 2·62 2·89 2·06	199 195 185 166 188	62.50 62.96 69.17 61.97 67.67
1896 1897 . 1899 . 1890 .	13 11 13 11 13 11 13 11 13 11	22,71,877 22,97,134 23,24,365 23,61,938 23,87,339	1.63,688 1.52,215 1,93,364 2,09,611 2,55,120	61,135	3·42 3·56	90,107 91,805 92,477 93,803 95,293	-27,363 -30,670 -13,042 - 9,223 +32,039	241 223 284 307 375	59:81 59:89	44·28 44·28 44·28 44·28 44·28	50,00,000 50,00,000 50,00,400		1,38,582 1,33,096 1,71,375 1,79,444 2,67,285	2:77 2:66 3:43 3:59 5:35	157 144 181 194 234	61.63 59.84 58.90 59.88 50.06
1901 . 1902 . 1903 . 1904 . 1905 .	13:11	25,46,891 28,02,330 30,92,697 31,52,907 91,76,934	3,46,103 3,77,177 3,95,784	1,44,235 1,71,286 1,91,441 1,98,066 1,67,905	6·11 6·19 6·28	98,989 1,06,632 1,17,295 1,20,127 1,23,241	+ 15,246 + 64,604 + 74,156 + 77,939 + 44,964	508 553 583 583 177	51 51 49 48 50 14	44.28 44.28 44.28 44.28 44.28 44.28	50,00,000 50,00,000 50,00,000	6,31,911 6,43,742	2,88,838 3,16,683 3,21,328 3,22,374 2,67,959	5·78 6·33 6·43 6·45 5·36	254 278 276 279 227	50.64 49.74 48.84 49.81 48.63
1906 1907 . 1908 . 1909 . 1910 .	13.11 13.11 18.11 15.11 15.11	31,57,841 83,98,742 85,84,132 86,27,495 37,52,643	3,60,294 4,83,549 4,29,276 4,68,717 5,70,169	2,27,071 1,62,302 1,98,456	6.68 4.59 5.47	1,25,079 1,94,145 1,19,624 1,20,102 1,23,711	+ 53,682 +1,22,926 + 42,678 + 78,354 +1,24,281	710 630	53 04 62 19	44·28 44·28 44·28 44·28 44·28	50,00,000 50,00,000 20,00,000	7, 32,284 6,11,033	2,81.376 3,44,438 2,31,222 2,75,516 3,33,839	5:63 6:88 4:62 5:51 6:68	246 318 965 288 333	50°36 52°96 62°16 57°65 56°44
1911 . 1912 . 1st qr	12·13 12·13	58.28.934 89,14,773		3,18,267	8 13	1,28,262 1,22,749	+1,55,515 +1,31,897		55-11		50,00,000	9,09,768	3,29,072 4,08,687	6·58 8·17	317 393	55·19 55·08
1913 1 9 13-	12 13	39,41,321	2,12,459	96,809	2.46	33,398	• 63,471	1,847	54.41	44 49	50,00,000	2,69,528	1,22,989	2.46	466	54.41
14	12.13	40,23,467		2,73,970	1	į.	+1,40,008	l .	1	44-49	50,00,000		1	6.97	381	60.50
1914- 15	12.13	40,69,706	5,38,468			1,41,598	• 60,165	1 044	62·53	14.49	, .	1	2,48,000	4.96	286 349	62°54
1915- 16 1916	12.18	40,94,551	6,58,689 7.87.907	3,65,281		1,34,805	+1,38,720	1	53'64		50,00,000		8,43,352 4,16 266	6 87 8 93	416	57·45 53·64
17	12 66			4,65,293		1 1	+3,23,076		53.23		50,00,000		,	11.36	524	53-23
1917 18																

Bhopal-Ujjain railway (5' 6" gauge)-

Progress in opening-

	 Sectio	n of railwa	у		Date of opening	Total.		
•	 ,	1				2	3	4
Bhopal to Ujjain	 7.					11-11-95	11328	118-29

Details of construction-

alls of construction—

Permanent-wig.—The permanent-way consists of 75-lb. flat-footed steel rails on transverse steel sleepers.

Ballast.—The line is fully ballasted throughout with broken stone.

Pencing.—The line is fenced only at, and in the vicinity of stations, towns and important level crossings.

Current.—There are no curves with a radius of less than 990 feet.

Gradients .- The ruling gradient is 1 in 150.

Bhepal-Ujjain railway (5' 6" gauge)-contd.

Agreements and contract-

- Agreement, dated the 4th August 1896 (called the principal contract), between the Government of Her Highness the Begum of Bhopol and the Indian Midland Railway Company, as to the maintenance, management and working, by the Company, of the Bhopal-Parbati section of the Bhopal-Ujjain railway as part of the Company's undertaking.
- Agreement, dated the 4th August 1896 (called the principal contract), between the Government of His Highness the Maharaja Scindia of Gwalior and the Indian Midland Railway Company, as to the maintenance, management and working, by the Company of the Parbuti-Ujjain section of the Bhopal-Ujjain railway as part of the Company's undertaking.
- Contract, dated the 21st December 1900, between the Secretary of State and the Great Indian Peninsuls
 Railway Company, as to the maintenance, management and working, by the Company, of the
 railways known as the Great Indian Peninsula railway system and the Indian Midland railway
 system, and the subsidiary lines included therein.
- Memorandum No. 2658-I. B., dated the 1st July 1902, from the Government of India in the Foreign
 Department, to the Government of India in the Public Works Department, intimating the
 acceptance by Her Highness the Begum of Bhopal of the provisions of clauses 28 and
 29 of the contract of the 21st December 1900, between the Secretary of State and the Great
 Indian Peninsula Railway Company, in lieu of those of clause 15 of the agreement of the 4th
 August 1896, between Her Highness' Government and the Indian Midland Railway Company,
 as to the method of arriving at the working expenses of the Bhopal-Parbati section of the
 Bhopal-Ujjain railway.
- Agreement, dated the 31st January 1911 (supplemental to the agreement of 1896), between the Secretary of State and the Government of Her Highness the Begam of Bhopal, as to the substitution of "Secretary of State," for "Indian Midland Railway Company," as a party to the agreement of 1896.
- Agreement, dated the 20th March 1911 (supplemental to the agreement of 1896), between the Secretary of State and the Government of His Highness the Maharaja Scindia of Gwalior, as to the substitution of "Secretary of State," for "Indian Midland Railway Company," as a party to the agreement of 1896.

Main provisions of agreements and contract-

- Land.—Provided free of cost by the Bhopal and Gwalior Durbars for the portions of the railway
 in their respective territories.
- (ii) Government sid.—The Bhopal-Parbati section is owned by the Bhopal Durbar, and the Parbati-Ujjain section by the Gwalior Durbar, each of which provides the funds for additional works, alterations in existing works not of the nature of repairs, and expenses other than those due to ordinary wear and tear incidental to the use and working of the railway and works and the conveyance of traffic thereon. The line is managed, maintained, stocked and worked by the Great Indian Peninsula Railway Company as part of the Indian Midland Railway system of the Company's undertaking.
- (iii) Terms of working.—For the Bhopal-Parbati section the charges against its gross receipts for working are as noted under Great Indian Peninsula railway (5' 6" gauge).

For working the Parbati-Ujjain section the Great Indian Peninsula Railway Company retains 50 per cent of its gross receipts for each half-year. The gross carnings of the section are also charged with rent for the use of the station and accommodation provided by the Bombay, Baroda and Central India railway at Ujjain Junction station, and with rent for the telegraph lines and instruments when not the property of the section.

- (iv) Distribution of profits.—The net earnings of the Bhopal-Parbati section belong to the Bhopal Durbar; and those of the Parbati-Ujjain section, to the Gwalior Durbar.
- (v) Rates and Jares.—
 (vi) Special obligations as to the conveyance of.—

 (a) Mails, troops, police, high Government stores.—
 (b) Government bullion and coin, and the persons in charge thereof.—
- (vii) Power of the Government to determine agreements and contract.— (viii) Powers of the Durbars to determine agreements. from the dates of opening of the respective sections throughout for all kinds of public traffic, on 12 months' notice in writing given by either party to the other on the 30th June or 31st December in any year.
- (ix) Term of agreements and contract,—Ten years, or as noted under the Great Indian Peninsula railway, whichever shall first fall in from the date of opening of the respective sections throughout for all kinds of public traffic.

Bhopal-Ujjain railway (5' 6" gauge)-concld.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Bailway Administration Report for 1907.)—

Year.	Mileage open at end of each year.	Total enpital outlay, in- cluding suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3 ′	4	5	6	7	8
1908 . 1909 . 1910 .	Miles. 113°27 113°27 113°27	Rs. 78,62,989 78,72,658 78,73,354	Rs. 7,70,825 8,23,957 8,65,310	Rs. 3,45,421 3,82,457 4,05,340	4·30 4·86 5·15	Rs. 181 148 147	55·16 58·58 53·16
1911 . 1912 .	113 ⁻ 27 118-27	78,77,088 78,78,601	9,59,356 10,76,999	4,55,954 5,17,442	5·79 6·57	163 183	52:47 51:96
1st qr. of 1913.	118-27	78,79,281	2,47,615	1,17,202	1.49	168	52-67
1918-14	113-27	78,82,524	11,10,645	5,12,648	6 ·50	189	58-84
1914-15	113'27	78, 79,430	9,76,407	4,27,881	5.43	166	56.18
1915-16 1916-17 1917-18	11 3 ·27 113·35 118·29	78,83,465 78,87,205 79,00,130	10,77,594 12,49,263 8,92,619	5,04,090 6,01,113 4,26,880	6: 39 7:62 5:40	183 212 1 5 2	58·22 51·88 52·17

Bina-Goona-Baran railway (5' 6" gauge)-

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.
1	2	8	. 4
From a point 32 D at mile 606:457 at Bina to junction with Bina Gooma Baran railway at mile 607:916.		1-46	•••
From the joint boundary of the Midland section of the Great Indian Peninsula and Bina-Geona-Baran railways, a point, 200 miles from the centre of Bina	23-9-95	71.71	
station, to Goons. From contro of Goons station (mile 216—3,402 feet) to end of Baran station (mile 200—2,55) feet).	15-5-99	73-90	2
(mits 200-2,550 feet).	***		147

Details of construction -

Permanent-way.—The line is laid with 75-lb. flat-footed steel rails, 59.90 miles on doodar sleepers and 85.73 miles on transverse steel sleepers, State railway pattern and 1.44 miles are laid with 80-lb. track on Indian Midland railway cast iron pots.

Ballast .- The line is ballasted with broken stone and laterite.

Fencing.—The line from Bina to Goona is fenced. The Goona-Baran section is unfenced except at stations.

Curves .- There are no curves with a radius of less than 990 feet.

Gradients .- The ruling gradient is 1 in 125.

Agreements and contract-

Agreement, dated the 15th July 1896 (called the principal contract), between the Government of His Highness the Maharaja Scindia of Gwalier and the Indian Middaud Railway Company, as to the maintenance, management and working, by the Company, of the Bina-Goona section of the Binamaintenance, management and woman, by a company, of the Johnson section of the Johnson Good of the Johnson and the Johnson of June 1899).

Agreement, dated the 20th February 1890 (called the principal contract), between the Government of His Highness the Maharao of Kotah and the Indian Midland Railway Campany, as to the maintenance, management and working, by the Company, of the Chabra-Baran section of the Bina-Goona-Baran railway as part of the Company's undertaking.

Agreement, dated the 27th February 1899 (called the principal contract), between the Government of His Highness the Nawab of Tonk and the Indian Midland Railway Company, as to the management, maintenance and working, by the Company, of the Dharnaoda-Chabra section of the Bina-Goona-

Barun railway as part of the Company's undertaking.

Agreement, dated the 12th May 1899 (called the principal contract), between the Government of His Highness the Maharaja Scindia of Givalior and the Indian Midland Railway Company, as to the maintenance, management and working, by the Company, of the Goona-Dharnaoda section of the Bina-Goona-Baran railway as part of the Company's undertaking.

Contract, dated the 21st December 1900, between the Secretary of State and the Great Indian Peninsula Railway Company, as to the maintenance, management and working, by the Company, of the

railways kuown as the Great Indian Peninsula railway system and the Indian Midland railway system, and the subsidiary lines included therein.

Rina-Goona-Baran railway (5' 6" gauge)-contd.

Agreements and contract-concld.

Memorandum No. 3529 I. B., dated the 20th September 1901, from the Government of India in the Foreign Department, to the Government of India in the Public Works Department, intimating the acceptance by the Kotah and Tonk Durbars of the provisions of clauses 28 and 29 of the contract of the 21st December 1900, between the Secretary of State and the Great Indian Peninsula Railway Company, in lieu of those of the contracts of the 20th and 27th February 1899, between the Kotah and Tonk Durbars and the Indian Midland Railway Company, as to the method of arriving at the working expenses, respectively, of the Chabra-Baran and Dharnaoda-Chabra sections of the Bina-Goona-Baran railway.

Agreements, dated the 17th April 1905, between the Government of His Highness the Maharaja Scindia 29th June

- of Gwalior and the Government of His Highness the Nawab of Tonk, as to the purchase, by the former from the latter, of the Dharnaoda-Chabra section of the Bina-Goona-Baran railway.
- Agreement, dated the 12th January 1911, between the Secretary of State and the Government of His Highness the Maharao of Kotah, supplemental to the agreement of the 20th February 1899, between the Kotah Durbar and the Indian Midland Railway Company, as to the substitution of "Secretary of State", for "Indian Midland Railway Company", as a party to the agreement of 1899.
- Agreement, dated the 20th March 1911, between the Secretary of State and the Government of His Highness the Maharoja Scindia of Gualior, supplemental to the agreement of the 15th July 1896, between the Gualior Durbar and the Indian Midland Railway Company, as to the substitution of "Secretary of State", for "Indian Midland Railway Company", as a party to the agreement of July 1896.
- Agreement, dated the 20th March 1911, between the Secretary of State and the Government of His Highness the Maharoja Sciudia of Gwalior, supplemental to the agreement of the 12th May 1899 between the Gwalior Durbar and the Indian Midland Railway Company, as to the substitution of "Secretary of State," for "Indian Midland Railway Company", as a party to the agreement of 1899.
- Agreement, dated the 20th March 1911, between the Secretary of State and the Government of His Highness the Maharaja Scindia of Gwalior, supplemental to the agreement of the 27th February 1899, between the Tonk Durbar and the Indian Midland Railway Company, as to the substitution of "Secretary of State", for "Indian Midland Roilway Company", as a party to the agreement of 1899.
- Memorandum No. 3002-I.B., dated the 80th August 1913, from the Government of India in the Foreign Department, to the Government of India in the Reitmay Department, intimating the acceptance by the Gwalior Durbar of the arrangement come to between the Tonk Durbar and the Great Indian Peninsula Railway Company in 1901, for the purpose of arriving at the working expenses of the Dharnaoda-Chabra section of the Bina-Goona-Barau railway.

Corrigendum to the agreement of 20th February 1899, as to the method of calculating the working expenses of the Chabra-Baran section with effect from 1st October 1917.

Main provisions of agreements and contract-

(i) Land. - Provided free of cost by the several Native States for the portions, of the railway in their respective territories.

(ii) Government aid.—The Bina-Goona, Goona-Dharnaoda, and Dharnaoda-Chabra sections are owned by the Gwalier Durbar, and the Chabra-Baran section by the Kotah Durbar, each of which provides funds for additional works, alterations in existing weeks not of the nature of repairs, and expenses other than those due to ordinary wear and tear and incidental to the use and working of the railway and works and the conveyance of traffic thereon. The railway is managed, maintained, stocked and worked by the Great Indian Peninsula Railway Company as part of the Indian Midland railway system of the Company's undertaking.

(iii) Terms of working.—For working the Bina-Grouna section, the Great Indian Peninsula Railway Company retains 50 per cent of its gross receipts for each half-year. The gross receipts of the section are also charged with rent for works, etc., in sole and joint use at Bina junction as laid down in clause 10 of the agreement of the 15th July 1896, and with rent for telegraph lines and instruments when not the property of the railway.

For working the Goona-Dharmoods section, the Great Indian Peniusula Railway Company retains out of its gross receipts a sum which bears the same proportion to the entire gross

retains out of its gross receipts a sum which bears the same proportion to the entire gross receipts of the section as the aggregate working expenses of the Indian Midland railway system as a whole (including the Geona-Dharnaoda section) bear to the gross receipts of that system, for each half-year, subject to a limit of 50 per cent of the gross carnings of the section.

For the Dharnaoda-Chabra section the Railway Company charges the same percentage of

For the Dharnaoda-Chabra section the Railway Company charges the same percentage of the entire gross receipts of that section as the aggregate working expenses of the whole system of the Company bear to the gross receipts of that system.

For working the Chabra-Baran section the Great Indian Peninsula Railway Company retains out of its gross receipts a sum which hears the same proportion to the entire gross receipts of the section as the aggregate working expenses of the whole system of the Company hear to the gross receipts of that system, for each half year, subject to a limit of 50 per cent of the gross carnings of the section.

(iv) Distribution of profits.—The net receipts of each section are paid over to the Durbar to which such section belongs.

Bina-Goona-Baran railway (5' 6" gauge)-concld. Main provisions of agreements and contract.-concld.

> (v) Rates and fares.—
> (vi) Special obligations as to the conveyance of.— As noted under (a) Mails, troops, police, high Government officials and Government stores.
> (b) Government bullion and coin, and the persons in charge thereof— Great Indian l Peninsula rail-

(vii) Power of the Government to determine agreements.—
(viii) Power of the Durbars to determine agreements.—
(ix) Term of agreements.—

As noted under Bhopal Ujjain railway, except in the case of Chabra-Baran section where the Agreement, dated

the 20th February 1899, is terminable on the 31st March or 30th September in any year

on 12 months' notice being given in writing by either party to the other.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

Year.	Mileage open at end of each year.	Total capital outlny, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Not earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings p er mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8
1908 1909 1910 1911 1913 1st qr. of 191	Miles 145-63 145-63 145-61 145-61 145-61 145-61	Rs. 99,96,863 1,40,08,750 1,00,13,493 1,00,32,562 1,00,34,004 1,00,34,292	R s. 4,13,370 2,79,897 3,28,511 3,87,036 5,24,546 1,56,680 6,13,716	Rs. 1,88,397 1,27,960 1,53,287 1,81,472 2,50,969 75,070 2,85,378	1.88 1.28 1.58 1.81 2.50 0.75 2.84	Rs. 55 37 43 51 69 88 81	54-42 54-28 53-34 53-11 52-16 52-07 53-50
1914-15 1915-16 1916-17 191 6- 17	145'61 145'61 145'61 147'07	1,00,50,037 1,00,52,443 1,00,53,452 1,00,53,795	4,46,962 5,41,654 5,76,179 4,62,319	1,92,956 2,51,780 2,72,816 2,20,979	1.91 2.50 2.71 2.20	59 72 76 60	57·08 56·52 52·74 52·29

Cawnpore-Banda railway (5' 6" gauge)-

This line was constructed and worked as a State line by the Oudh and Rohilkhand railway up to the Sist March 1915. Since then the maintenance, management and working of the line have been taken over by the Great Indian Peninsula Railway Company.

Progress in opening-

Sections	o f :	railw	ay.											Date of opening	Miles.	Total.
1														3	3	4
Juhi to Hamirpur Road . Hamirpur Road to Khirada	:	:	:	:	:	:	:	:	:	:	:	:	:	21-4-13 20-7-14	32.87 42.84	
. '.										Тот	ΛL					75*71

Details of construction-

Permanent-way. - The permanent-way consists of 75-lb. flat-footed British standard rails laid on steel trough sleepers.

Ballast. The line is ballasted with sand. But stone or brick ballast has been provided at station yards and bridge approaches.

Fencing .- The line is fenced throughout.

Curres. - The sharpest curve has a radius of 2,292 feet.

Gradients .- The ruling gradient is 1 in 150.

Dated the 21st December 1900 (called the principal contract), between the Secretary of State and the Great Indian Peninsula Railway Company, as to the maintenance, management and working, by the Company, as one undertaking, of the railways known as the Great Indian Peninsula railway system and the Indian Midland railway system, and the subsidiary lines included therein.

Dated the 8th May 1914, between the Secretary of State and the Great Indian Peninsula Railway Company, as to the maintenance, management and working, by the Company, of the Cawnpore-Banda railway, with effect from the 1st April 1915, as part of the Indian Midland railway system of the Company's undertaking.

Main provisions of contracts-

As noted under Agra-Delhi Chord railway, except that the rolling-stock for the Cawnpore-Banda railway will be supplied by the Great Indian Peninsula railway in return for a payment of 5 per cent of the gross earnings of the Cawnpore-Banda railway, over and above the percentage paid by the Secretary of State, for the maintenance and working of that line. (India office letter No. 26 Railway, dated the 30th April 1915).

Cawnpore-Banda railway (5' 6" gauge)-concld.

Statistics of working-

Year.	Mileage open at en of each year.	Total capital outlay including suspense, to end of each dyear, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.		Net earnings.	Percentage of net earnings on total capital outlay given in solumn (3).	Interest.	Gain or loss to the State pertaining to each year.	Earnings	Propertion of expenses to earnings.
1	2	3	4	5	6	7	8	99	10
	Miles.	Rs.	Rs.	Rs.		Re.	Rs.	Rs.	
1918-14	. 33.87	69,34,118	} Inclu	ded with	the Oudh	and Rohilki	and railway		
1915-15 1915-16 1916-17 1917-18	76·27 75·71 75·71 75·71	78,34,564 78,91,973 79,21,177 79,89,027	4,05,258 3,68,286 3,08,939	1.60,136 1,50,691 1,29,184	2.03 1.90 1.62	2,72,926 2,60,632 2,76,281	-1,12,790 -1,09,94 1 -1,47,097	1 03 9 4 78	60·48 59·08 58·18

Dhond-Baramati railway (2' 6" gauge)--

Date of registration of the Company .- 1912.

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
1	2	3	4
Dhond to Baranati	20-5-14	27.26	27.26

Details of construction-

Permanent-way.—The permanent-way consists of 35-lb. flat-footed steel rails laid on pressed steel pea-pod

Ballast. - The line is ballasted with stone and the banks with moorum.

Fencing.-Only the station yards are fenced.

Curves. - The sharpest curve is of 478.3 feet radius.

Gradients .- The ruling gradient is 1 in 100.

Agreement-

The line was constructed, and is being maintained and worked, by the Great Indian Peninsula Railway Company for the Dhond-Baramati Railway Company under the terms of an agreement which is under consideration.

Statistics of working-

Year.	Wileage open at end of each year.		Group	Net earnings.	total capital	Rebate from (+), or share of surplus profits payable to, (-), the Great Indian Peninsula raif- way.	Total income.	Percentage of total income on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earning .
1	2	3	4	5	6	7	8	9	10	
1914-15 1915-16 1916-17 1917-18	Miles. 27.26 27.26 27.26 27.26	Rs. 11,81,873 11,61,931 11,60,314 11,62,368	Hs. 50,283 68,289 78,246 95,019	Re. 27,628 87,559 43,035 52,277	2·84 3·28 3·71 4·50	Rs. + 12,448 + 20,948 + 14,507 5,841	Rs. 40,076 58,507 57,542 58,118	Re. 3·89 5·03 4·96 5·00	Rs.` 35 48 55 67	45:00 45:00 45:00 45:00

Ellichpur-Yeotmal railway (2' 6" gauge) Date of registration of the Company .- 1910.

This line was constructed by the Great Indian Peninsula Railway Company for a Branch Line Company called the Central Provinces Railways Company. 20 176**RB**

Ellichpur-Yeotmal railway (2' 6" gauge)—contd. Progress in opening—

	Sections of railway.												Date of opening.	Miles.	Total.	
***************************************	**** ***		1		e									2	3	4
Ellichpur to Murtajapur				•										1-12-13	47.65	
Murtajapur to Karanja														1-11-14	19.83	
Karanja to Yeotmal .	٠	•		•										80-9-15	50.18	
								Тот	LL OI	EN 1	CILE.	AG E				117:60

Details of construction-

Permanent-way.—The permanent-way consists of 35-lb. flat-footed steel rails laid on pressed steel peapod sleepers.

Ballast .- The line is chiefly ballasted with sand. Banks at places are ballasted with moorum.

Fencing. -Only the station yards are fenced.

Curves. - The sharpest curve is of 637 feet radius.

Gradients.-The ruling gradient is 1 in 100.

Contracts -

Dated the 27th March 1916, oetween the Secretary of State and the Central Provinces Railways Company, as to the construction, maintenance and working of the Ellichpur-Yeotmal railway.

Dated the 15th December 1916, between the Secretary of State and the Great Indian Peninsula Railway Company, as to the maintenance and working of the Ellichpur-Yeotmal railway.

Dated the 3rd October 1917 (supplemental to the contract of 27th March 1916). between the Society of State and the Central Provinces Railways Company, as to the construction and working of the Pulgaon-Arvi railway as part of, and included, in the original undertaking.

Main provisions of contract-

(i) Land.-Land in British territory provided free of cost.

(ii) Government sid. - The Government shall allow to the Company, at the end of each year by way of rebate such a sum, not exceeding in any year the net earnings of the Great Indian Peninsula railway, from all traffic originating or terminating at stations of this railway, as shall together with the net earnings of the Company make up an amount equal to interest for the year at a rate of 5 per cent per annum on the paid up share capital of the Company. When the net earnings do not suffice to pay interest at 5 per cent, the Company shall be paid by the working agency out of the working expenses the sum of Rs. 15,000 for each year towards the office expenses and expenses of management and direction of the Company and also pay all such legal expenses as shall have been incurred by the Company and are debitable to Revenue.

(iii) Terms of working.—The line is managed, maintained, worked and supplied with rolling-stock for

45 per cent of its gross earnings.

(iv) Distribution of profits. - When the net earnings of the Company exceed the minimum amount sufficient to give a return of 5 per cent per annum such excess shall be applied towards the payment of office expenses, expenses of management and direction of the Company up to a limit of Rs. 21,000 and the balance, if any, shall be divided equally between Government and the Company.

(v) Rates and fures. - The working agency shall charge such rates and fares for the carriage of goods and passengers, as shall be agreed upon between the Secretary of State and the working agency, and adopt such classification of goods as shall be in force on the Great Indian Peninsula railway.

(vi) Special obligations as to the conveyance of-

(a) Mails, troops, police, high Government officials and Government stores.—

(b) Government bullion and coin, and the persons in and conducting the traffic thereon, including police and telegraphs and telegraphs and telegraphs and telegraphs and telegraphs. appliances, shall in all respect, as far as practicable, be carried on in the same manner and subject to the same regulations and control by the Secretary of State as the like business on the Great Indian Peninsula railway.

(vii) Power of the Government to determine agreement.—The Government may, by giving not less than twelve months' notice of purchase, determine the contract on the 31st March 1947 or on the

S1st March in the last year of any subsequent period of ten years.

If the contract is determined by 'notice of purchase,' the Government shall pay to the Company 25 times the amount of the average yearly not carnings (excluding payments on account of rebate) derived by the Company during the three years immediately preceding the time at which the contract shall be determined, subject to a limit of 20 per cent. in excess of, but not less than, the total capital expenditure of the Company.

The Government may also, by giving twelve months' 'notice of special purchase', determine the contract at any time in the following cases:—

(a) when it is considered desirable that the gauge of the railway should be altered;

(b) when it is considered desirable to convert the railway into a line of through communication and

Ellichpur-Yeotmal railway (2' 6" gauge) -concld.

Main provisions of contract-coneld.

(c) when it is considered desirable to extend the railway (without altering the gauge or making the line part of a through route), and the Company is unable or unwilling to supply the necessary capital for such extension.

If the contract be determined by 'notice of special purchase', the Government to pay to the Company 25 times the average yearly net earnings (excluding payments on account of rebate) of the Company during the last preceding three years, or 115 per cent of the total capital expenditure of the Company, whichever may be the greater.

(viii) Power of the Company to surrender contracts.—Nil.

(ix) Term of contract [if not determined under (vii)].—None specified.

Statistics of working (Including Pulgaon-Arvi railway from 1917-18.)-

Year.	open at end of each	Total capital outlay, includ- ing suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	earnings.	Net earnings.	Percentage of net carnings on total capital outlay given in column (3).	Rebate from, (+), or share of surplus profits payable to (-), the Great Indian Peninsula railway.	income.	Percentage of total income on total capital outlay given in column (3).	Earnings per mile per week,	Propertion of expenses to earnings.
1913-14 . 1914-85 . 1915-16 . 1916-17 . 1917-18 .	Miles, 47.65 67.48 117.28 117.66 139.49	3 Rs, 24,35,662 62,43,618 66,53,204 67,59,039 83,85,992	8s. 65,505 2,86,101 4,46,479 5,96,916 6,67,556	5 Rs. 86,027 1.57,356 2,45,563 3,28,304 3,59,455	1:48 2:52 3:69 4:86 4:29	7 Rs. + 4,402 + 16,500 + 82,115	8 Rs. 36,027 1,57,356 2,49,965 3,44,894 3,91,570	9 Rs. 1'48 2'52 3'76 5'10 4'67	10 Rs. 196 82 / 73 98 92	45.00 45.00 45.00 45.00 45.00

Pulgaon-Arvi railway (2' 6" gauge)-

Date of registration of the Company .- 1914. Sanction to the construction of this line by the Great Indian Peninsula Railway Company, for the Central Provinces Railways Company, was conveyed in Railway Board's Notification No. 248, dated the 30th September 1914.

Progress in opening

9			
Section of railway.	Date of opening.	Milos,	Total.
		-	
1	2	3	4
The second section of the section of the			
Pulgaon to Arvi	25-9-17	21.83	21.83

Details of construction-

Permanent-way.—The permanent-way consists of 35-lb, flat-footed rails laid partly on steel sleepers and partly on sal sleepers.

Paulast.—The line is ballasted with stone.

Pencing.—Only station platforms, B class level crossings and some cuttings alongside the Public Works Department road are fenced.

Curves .- The sharpest curve is of 537 feet radius.

Gradients.-The steepest gradient is 1 in 80.

Contracts-

As noted under Elichpur-Yeotmal railway.

Main provisions of contracts.)
Statistics of working—Included with Elichpur-Yeotmal railway.

Matheran Light railway (2' 0" gauge)-

Date of registration of the Company .- 16th September 1908.

Progress in opening-

Section of railway.	Date of opening.	Miles. •	Total.
1	2	3	4
Neral to Matheran	22-3-07	12.61	12.61

Details of construction.-

Permanent-way. - The permanent-way consists of 30-lb. flat-footed steel rail laid on half-round teak and other wood sleepers.

Ballast .- Broken stone.

Fencing.—Not fenced.
Curves.—The sharpest curve is of 60 feet radius.

Gradients .- The gradient is 1 in 20 compensated.

^{*} The increase of 1'15 percent is due to the expenditure incurred direct by the Company on account of lean of rolling stock from the Pachora-Jamner railway.

Matheran Light railway (2' 0" gauge)—concld. Local Government Order and agreement.—

The Matheran Transway order published under the Bombay Government, Public Works Department (Railway), Notification No. 34, dated the 28th July 1904, authorising the construction, maintenance and working of the line by the Promoter.

Further order published under the Bombay Government, Public Works Department offecting certain

(Railway), Notification No. 47, dated the 19th November 1907, and amendments in Letter No. 30, dated the 11th January 1908, from the Secretary to the Governthe Matheran ment of Bombay, Public Works Department (Railway Branch) to the Pro-Tramway order moter, Matheran Light railway. of 1904.

Agreement, dated the 30th October 1909, between the Matheran Steam Light Tramway Company and the Great Indian Peninsula Railway Company, as to the control of traffic and working, by the latter, of the line.

N.B.-A revised agreement having retrospective effect from the 1st April 1915 was concluded after the

Slat March 1918.

Main provisions of Local Government Order and Agreement—

(i) Land.—Government land was provided free of cost. Private land to be acquired by the Government at the expense of the Tramway Company.

(ii) Government aid .- The line is the property of the Matheran Steam Light Tramway Company, who provide all rolling stock, locomotives, machinery and plant, and maintain the way and works; the working of traffic train arrangements, and the keeping and auditing of the Revenue Accounts being under the control of the Great Indian Peninsula Railway Company.

(iii) Terms of working.—The gross receipts are treated as those of the Great Indian Peninsula Railway.

- way Company, which retains thereout the actual expenditure incurred by it, including the cost of stores consumed on the Matheran Light railway in the Traffic and Audit Departments, and for station and running staff, printing, stationery and all other expenses connected therewith, plus station and running sear, princing, scattering and an observe expenses, machinery, plant and furniture, and 7½ per cent per annum for ballast, permanent-way, etc., including maintenance and renewal, for the sole use of the light railway with a certain proportion (based on the weight of local and interchanged traffic) of the annual rent, at the rates above noted, for new joint works.
- (iv) Distribution of profits.—The net receipts are to be paid over to the Light Railway Company.
 (v) Rates and fares.—To be within the maxima sauctioned in the Tramway Order, the rules, conditions, etc., in respect thereto being the same as obtain on the Great Indian Peninsula railway.
- (vi) Special obligations as to the conveyance of .-
- (vii) Power of the Tramway Company to determine agreement.

 (viii) Power of the Tramway Company to determine agreement.

 Slat March or Solth September in any content of the March or Solth September in any content of the Tramway Company to determine agreement.

 Slat March or Solth September in any content of the Tramway Company to determine agreement. year on six months' notice by either party to the other.
- (ix) Term of agreement .-Government may purchase the line as a going concern on the 1st January 1940, or at the expiration of any subsequent period of five years, for a sum representing the aggregate of 25 times the average of its net earnings for the three calendar years immediately preceding the date of purchase

Statistics of working (Those for 1907 will be found in Appendix 38 to the Railway Administration Report for 1907)—

Total capital outlay, in-oluding suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under Percentage of net earnings on total capital outlay given in column (3). Mileson open at Year. Gross Earnings per nile per week. Proportion of carnings. carnings. expenses to oach year. construction. 1 4 Ba. 53,410 64,873 55,951 74,352 78,089 77 1 Rs. 8,456 27,612 13,513 39,483 36,634 Miles. 12.61 12.61 12.61 Rs. 10,55,007 11,12,071 11,34,119 Rs. 117 144 123 1908 1909 1910 1911 0.80 84·17 57·44 75·85 2·48 1·19 3.47 3.25 158 163 1912 18t qr. of 1913 . 1918-14 . 1914-15 . 1915-16 . 11.38,720 11,38,848 11,38,848 11,38,849 11,41,805 11,42,757 12.61 19,401 74,545 84,325 84,185 0°34 2°84 2°42 1°48 2°32 2°71 3.843 118 114 12.61 12.61 33,410 27,558 16,278 129 128 182

Pachora-Jamner railway (2' 6" gauge)-

Date of registration of the Company .- 10th February 1915.

Sanction to the construction of this line by the Great Indian Peninsula Railway Administration, for the Pachora-Jamner Railway Company, was conveyed in Railway Board's Notification No. 64, dated the 17th March 1915. Progress in opening

Section of railway.	Date of opening.	Miles.	Total.		
1			2	8	4
Pachera to Jamner (sanctioned on 17th March 1915)	•••		•••	84-62	84-63

Chairman.—Colonel W. V. Constable, R.E. Acting Secretary.—Percy A. Cory, Esq. Offices.—25 Bucking ham Palace Road, Westminster, S.W.

Date of registration of the former guaranteed Company .- 1853.

The former Madras Guaranteed Railway Company's contract having expired on the 31st December 1907 the lines owned by that Company were purchased by the Secretary of State for India, and on the 1st January 1908 the then existing Madras railway (with the exception of the Jalarpet-Mangalore section), together with the 3'3\frac{1}{2}\text{"gauge sections of the South Indian railway from Katpadi to Gudur and Pakala to Dharmavaram, was made over to the Southern Mahratta Railway Company for working, the enlarged Company being styled the Madras and Southern Mahratta Railway Company.

Lines comprised in the system-The Madras and Southern Mahratta railway system is made up of-

							0):	truction or sanctioned for construc-	Total.
							Open line. Miles.	tion. Miles.	Miles.
(a) Madras and Southern Mahratta railway (5' 6	3" gar	igo)					1,031.73		1,031.73
(b) Kolar Gold-fields railway (5' 6" gauge)							9.88	***	8.88
(c) Tenali-Repalle railway (5' 6" gauge)							21.20	'	21.20
(d) Madras and Southern Mahratta railway (3'	3,1′ g	ang	:)				1,518*13		1,518.18
(e) Bezwada-Masulipatam railway (3' 3%" gange)						51.80		51.80
(f) Birur-Shimoga railway (3' 3;" gauge)							37:92	•••	37.92
(g) Dhone-Kurnool railway (3' 3‡" gauge)							32*00	•••	32.00
(h) Hindupur (Yesvantpur-Mysore Frontier) ra	ilway	(3'	34"	gaug	0)		51.35	***	51.35
(i) Kolhapur State railway (3' 34' gauge)							29.27		28.27
(j) Mysore-Nanjangud railway (3' 3\" gauge)							15.80	•••	15.80
(k) Mysoro-section (Madras and Southern Mahr	atta)	(3'	31"	gaug	•)		296.28	***	296:28
(1) Sangli State railway (3' 8," gange)							4.90	•••	4.90
(m) West of India Portuguese railway (3' 31" ga	u (e)						51.10	***	51.10
(n) Alnavar Dandeli (8'31" gauge)						•	***	19•12	19.13
	1	ota	ι				3,151*66	19-12	3,170.78

Huder cons-

Running powers-

Prospin fuse over home line—
Bongal-Nagpur railway, Waltair to Vizagapatam (including the wharf and swamp lines)
Nizan's Garanteed State railway, outer signal at Beswada to Bezwada station
South Indian railway, over whole or any part of the Madras-Bangalore section
Bangalore-Chik Baltapur Light railway, Yesvantpur to Yelahanka, with the help of a 2rd rail,

Total
23171

Madras and Southern Mahratta railway (5' 6" gauge)-

The Madras and Southern Mahratta 5' 6" gauge railway is defined to be the former Madras railway (with the exception of the Jalarpet-Mangalore section), and the southern section of the former East Coast railway (called the North-East line of the former Madras railway).

Progress in opening-

Sections of railway.		Dute of opening.	Miles.	Total.	Grand total.	Remarks	
1		2	3	4	5	6	
SOUTH-WEST LINE-							
Main line-	- 1		1				
Madras to Veyasarpaudy	٠.	7-4-73	2-16		i i		
Veyasarpaudy to Walajah Road (Arcot). Walajah Boad (Arcot) to Katpadi	. 1	1-7-56	63 22		!		
Walajah Road (Arcot) to Katpadi	.	7-5-57	14.96				
Katpadi to Gudiyattam	- 1	19-5-58	15:36				
Gudiyattam to Ambur	.	16-1-60	17:01				
Ambur to Vaniyambadi	•	1-2-60	9*98				
Vaniyambadi to Jalarpet		23-5-60	9:86	182-55	1		
Branches-	1			102 33			
Rayapuram branch -	- 1				1		
Vavagamandy to Rayanuram	. 1	1-7-56	2.16		1		
Rayannram to Beach	.	22-1-00	1'03				
Washermenpet to Basin bridge		15-3-07	1.02				
Ranipet branch-		1		1.24	1		
Walajah Road (Arcot) to Ranipet		17-4-99	4:17		1		
Rangalore branch—				4.17	1		
Jalarnet Junction to Bangalore Cantonment .	•	1-8-64	84.37		1	l	
Bangulore Cantonment to Bangulore City .		1-7-82	3.05			l	
				87:42		l	
					W0.00		
Carried over	•	***	•••		228.38	1	

Madras and Southern Mahratta railway (5' 6" gauge) -contd.

Progress in opening -- concld.

Sections of railway,	Date of opening.	Miles.	Total.	Grand total.	Remarks.
1	2	8	4	5	6
NOBTH-WEST LINE-				228-38	
Main line-				1	ĺ
Arkonam to Nagari.	4-3-61	17.27			1
Nagari to Puttur	8-12-61	9.59		1	i
Puttur to Renigunta	15-9-62 1-10-64	14:46			1
1. 1. 1. 0. 11	1.9.65	38·02 39·59			
	1-8-66	34:31		1	
Muddanuru to Tadpatri.	1-9-63	32:07		1	
Tadpatri to Gooty	1-8-69	29.72		1	1
Gooty to the Tungabhadra river	12-12-70	75-33		l	ł.
Tungabhadra to Raichur	15-3-71	17-93		1	1
			308.28		1
NORTH-EAST LINE-		1-		308-28	
Basin bridge to Kornkkupettai	15-3-07	0.82		1	
Washermonpet to Ennur	22-2-96	8.25			i
Ennur to Gudur	23-2-99 #1-11-88	75 25			
9 9 4 2: 1 6 7 1	20-12-98	23·75 155·00		1	* The date of
Kistna Canal to Bozwada	15-7-97	3.06		1	opening of
Bezwada to Kovvur	20-2-93	88.24			the original
Kovvur to Rajahmundry	6-8-00	4.69	•	1	line which
Rajahmundry to the Junction point near Waltair	15-7-93	119.80		i	was convert
Simhachalam Junction point near Waltair station to Waltair.	15-7-93	4.25	483 14		ed to, and
Branches -)			;	the 5' 6'
Samalkot Junction to Cocanada port branch .	15-7-93	9.75		1	gauge or
Waltair to end of branch near Vizagapatam station	15-7-93	2.18	11.93	495.07	the 1st Nov- ember 1899.
m					outher 1099.
TOTAL OPEN MILEAGE DOUBLE LINE-				1,031.78	
Washermenpet to Basin bridge	15-3-07	1.05			
Washermennet to Vevasarpaudy	14-9-01	1.02			
Madras to Veyasarpandy Junction	7-4-73	2 16			
Yeyasarpandy Junction to Perambur	7-2-74	1.30		1	
Perambur to Avadi.	1-5-77	9.54			
Avadi to Tirnvallur	20-7-77	12.89			
Tiruvallur to Arkonam	28-8-77	16.52			
Bengal-Nagpur railway north outer signal to north facing point at Waltair.	- 1	0.40			
north meing point at waitair.		0.46			
TOTAL DOUBLE LINE .			41.94	l J	

Details of construction-

Permanent-way.—The South-West down line, from Madras to mile 42½ and from mile 59½ to mile 13¼½, and up line, from Madras to mile 12 are laid with 75-lb. bull-headed steel rails on east iron pots. The remainder of the South-West line, i.e., from mile 42½ to mile 59½ and from mile 13½ to Bangalore, and portion of up line, from mile 12 to mile 29½, the North-East line, from Basin bridge to mile 41½, and the North-West line, from Arkonam to mile 231:54, are laid with 80-lb. bull-headed steel rails on east iron pots, except 2 miles, from mile 96 to mile 98, on the North-West line which is laid with 76-lb. bull-headed rails. The South-West up line, from mile 29½ to Arkonam, and the North-West line, from mile 231:84 to Raichur, are laid with 75-lb. double-headed steel rails on east iron pots. The remainder of the North-East line, from mile 41½ to mile 266½, is laid with 75-lb. flat-footed steel rails on timber sleepers, except a portion, between miles 207 and 221, which is laid on pot sleepers. From mile 266½ to mile 355½ the line is laid with 75-lb. flat-footed steel rails on pot sleepers, except between miles 336¾ and 343 which is laid on timber sleepers. The line between miles 355½ and 483 is laid with 75-lb. flat-footed steel rails on timber and steel trough sleepers. The timber sleepers are being gradually renewed by steel trough sleepers.

The Walajah Road-Ranipet branch is laid with 75-lb. double-headed steel rails on cast iron pots, except for a short length where it is laid with 65-lb. double-headed iron rails on timber sleepers.

The Cocanada, and Vizagapatam branches are laid with 75-lb. flat-footed steel rails on timber sleepers.

Ballast .- The line is ballasted with stone and sand, chiefly the latter.

Fencing.—The North-West and South-West lines are fenced throughout and the North-East line only in the vicinity of towns, stations and level crossings.

Curves. - The sharpest curve is of 700 feet radius.

Gradients.—The ruling gradient between Madras and Jalarpet is 1 in 159; between Jalarpet and Bangalore, 1 in 80 (except at Kuppam Ghat where it is 1 in 68 and between Bangalore cantonment and Bangalore city there is a gradient of 1 in 78); between Walajah Road and Ranipet, 1 in 150; between Arkonam and Raichur, 1 in 80 (except at Ballapalli Ghat where it is 1 in 60) between Madras and Bezwada, 1 in 200; and between Bezwada and Waltair, 1 in 150.

Contracts-

Dated the 1st June 1882 (called the original contract), between the Secretary of State and the former Southern Mahratta Railway Company, as to the construction and working of a system of railways in the South Mahratta country to be called the Southern Mahratta railway.

Madras and Southern Mahratta railway (5' 6" gauge)-contd.

Contracts-concld.

- Dated the 28th October 1885 (supplemental to that of 1882), between the Secretary of State and the former Southern Mahratta Railway Company, us to the construction and working of the West Deccan railway
- Dated the 31st August 1887 (supplemental to those of 1882 and 1885), between the Secretary of State and the former Southern Mahratta Railway Company, as to the construction and working of a line from Ranibennur to Harihar and a line from Bellary to Guntakal.
- Dated the 31st August 1887 (supplemental to those of 1882, 1885 and 1887), between the Secretary of State and the former Southern Mahratta Railway Company, as to the construction, maintenance and working of the Mysore State railway.
- Dated the 27th February 1889 (supplemental to those of 1882, 1885 and 1887), between the Secretary of State and the former Southern Mahratta Railway Company, as to the completion and working of the Bellary-Kistna railway.
- Dated the 21st August 1898 (supplemental to those of 1882, 1885, 1887 and 1889), between the Secretary of State and the former Southern Mahratta Railway Company, as to the working of the British section of the Guntakal-Yesvantpur railway.
- Dated the 8th April 1903 (supplemental to those of 1882, 1885, the secondly mentioned contract of 1887, and that of 1889), between the Secretary of State and the former Southern Mahratta Railway Company, as to the adoption of 1s. 4d. as the "prescribed" rate of exchange.
- Dated the 26th June 1908 (called the principal contract), between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to the continuance of the existing contracts subject to the variations and modifications thereof as therein set forth.
- Dated the 16th March 1911, between the Secretary of State and the Madras and Southern Mahratta
- Railway Company, supplemental to, and in amendment of certain particulars in, that of 1908. Despatch from the Secretary of State, No. 66 Railway, dated the 9th August 1912, in regard to the
- issue of further capital by the Company.

 Dated the 11th February 1914 (supplemental to that of 1908), between the Secretary of State and the Madros and Southern Mahratta Railway Company, in regard to the issue of debentures and deben-
- Dated the 20th May 1914 (supplemental to the contracts of 1882, 1885, 1887, 1889, 1898, 1903, 1908 and 1911), between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to the adoption of the Government financial year for the preparation of accounts.
- Dated the 12th August 1914 (supplemental to the contracts of 1882, 1887, 1889, 1898, 1908

 1998, 1911 and 20th May 1914), between the Secretary of State and the Madras and Southern
 Mahratta Railway Company, as to the construction, maintenance and working of the Guntur-Tenali section of the Guntur-Repalle railway as part of the undertaking of the Company.

Main provisions of contracts-

- (i) Land .- Provided by the Government at the cost of capital.
- (ii) Government aid. —(a) Interest in sterling is guaranteed at 3½ per cent per annum on the nominal amount of capital stock, for the time being, of the Company, and is payable half-yearly by the Secretary of State, the Government being entitled to retain out of the Company's share of surplus profits for the year the rupee-equivalent of this interest. If the Company's share for the year be less than the guaranteed interest, the deficiency is not to be made good out of the Company's share of a subsequent year.
 - (b) Moneys for capital expenditure are provided at the Secretary of State's option, either by advances made by him, or by the issue of debentures or debenture stock or further capital stock of the Company : such issues can only be made with the Secretary of State's approval.
 - (c) Debentures falling due are discharged by advances made by the Secretary of State.
 - [Note.-The advances made by the Secretary of State under (b) and (c) above are, until repaid treated as further capital contributed by him. All moneys raised by the Company on debentures or debenture stock or capital stock are applied, in the first place, to the repayment of these advances.]
 - (d) Interest due on debentures or debenture stock is paid in sterling by the Sceretary of State.
 - [Note.-The rupee-equivalent of this interest is repaid to the Secretary of State out of the net earnings of each half-year.]
- (iii) Distribution of profits. After deducting, from the gross earnings of the Company's and State lines for the half-year, the working expenses (which include the contributions made under the rules to the Provident Fund and the haulage payable to the South Indian railway), the net earnings are applied :-
 - (a) in payment of rebate to the South Indian railway and to the Bezwada-Masulipatam railway,
 - if any [see parenthetical note under (c) below];
 (b) in repayment to the Secretary of State of the interest paid on debentures [see (ii) (d) above]. But the undertaking is to be credited half-yearly with a sum equal to the guaranteed interest paid on the average amount, if any, held by the Secretary of State during the half-year, of the unexpended balances of issues of capital made for the purposes of the undertaking; and,
 - (c) the surplus is divided between the Secretary of State and the Company in proportion to the respective shares in which the capital, for the time being, (excluding debenture capital) has been contributed by them. The Secretary of State's capital is taken at a sum of £ 111 millions, to which is added the amount up to date of his advances; and the Company's capital at £5 millions, the amount for the time being of their share capital.

Madras and Southern Mahratta railway (5' 6" gauge)-concld.

Main provisions of contracts -concld.

[Note.—25 per cent of the gross earnings derived by the Madras-Bangaloue section from traffic carried over that section in South Indian railway trains is payable as haulage to the South Indian railway. In addition, the South Indian railway receives a relate of 25 per cent of the gross earnings derived by the Madras-Bangalore section from the traffic interchanged between that section and the Jalarpet-Mangalore section, viá Jalarpet.

The terms of the rebate payable to the Bezwada-Masulipatam railway are given under Bezwada-Masulipatam railway (3' 3\frac{1}{8}'' gauge).]

- (iv) Rates and fares.—Maxima and minima for each class and description of passengers and goods are fixed by the Government, who also prescribe the several classes and descriptions. If the Government require the Company to reduce the rates for salt below those in force on the 28th June 1908, the Company are to be compensated for any loss ensuing.
- (v) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Government officials To be conveyed on the same general condiand Government stores.—

 To be conveyed on the same general conditions and at the rates in force on State rail-
 - (b) Government bullion and coin, and the persons in ways of similar gauge.
- (vi) Power of the Government to determine contract.—The railway and all its appurtenances are absolutely the property of the Government, which may determine the contract on the 31st December 1937, or on the 31st December in any succeeding fifth year reckoning from that date, by giving to the Company in London not less than twelve months' previous notice. Upon the termination of the contract the Company are to give the Government the possession of the railway; and the Government are to pay the Company a sum equal to the nominal amount of its share capital, viz., £5,000,000, and of any additional paid up capital stock that may have been issued for the purpose of the Company's and State lines.
- (vii) Power of the Company to surrender contract .- Nil.
- (viii) Term of contract. The contract is determinable only as noted under (vi) above.

Statistics of working-

Yo	enr.	r. Milongo open at control of cach year, i.e., outlay en collines open and		outhy, including susponse, to end of cach year, Gross Net to conting on earnings. (i) lines open and (ii) lines purtly or wholly under.				Proportion of expenses to carnings.
1		2	3	4	5	6	7	8
1908	913	Miles. 1,031:73 1,031:73 1,031:73 1,031:73 1,031:73 1,031:73 1,031:73 1,047:61 *1,031:73	16,03,79,297 17,06,51,720 17,37,06,686 17,73,67,666 17,73,67,668 17,80,88,139 17,97,20,709 18,26,82,343 18,59,51,863 18,63,35,872 18,80,59,305 18,95,62,451	Ra. 1,64,22,663 1,79,33,335 1,88,12,095 1,96,36,910 2,16,84,462 50,13,814 2,26,70,849 2,33,73,105 2,53,28,354 2,98,17,094 3,33,04,402	R ₈ , 44,96,942 72,97,315 86,93,571 87,15,549 1,03,95,264 32,98,211 1,04,31,713 1,10,00 466 1,26,37,710 1,56,86,389 1,63,03,449	2·69 4·66 5·03 5·81 1·82 5·71 5·93 6·78 8·02 9·69	Rs. 306 334 351 366 404 441 423 436 481 547 616	72:62 59:31 56:98 54:60 52:07 44:74 53:99 52:94 51:07 49:40 41:86

Kolar Gold-fields railway (5' 6" gauge)-

The railway was constructed by the Mysore Durbar in order to provide facilities for the gold-fields.

Progress in opening -

	Section	on of	rail	way					Date of opening.	Milps.	Total.
A PERSON ASSESSMENT OF THE PROPERTY AND ADDRESS OF THE PERSON AND		. 1	l						2	3	4
Bowringpet to Marikuppam								•	1-6-94	9.88	9.88

Details of construction-

Permanent-way. The line is laid with 76-lb. bull-headed steel rails on cast iron pot sleepers.

Ballast .- The line is ballasted with stone and sand, chiefly the former.

Fencing .- The line is fenced throughout.

Curves .- There are no curves with a radius of less than 1,000 feet.

Gradients .- The ruling gradient is 1 in 66.

^{*} The decrease is due to the dismantlement of the Guntur-Tenali branch as a temporary war measure.

Kolar Gold-fields railway (5' 6" gauge) -concld.

Agreement and contract-

Recement, dated the 1st July 1902, between the Mysore Government and the former Madras Railway.

Company, as to working and maintenance with effect from 1st January 1901.

Contract, dated the 26th June 1908 (called the principal contract), between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to the continuance of the existing agreement subject to the variations and modifications thereof as therein set forth.

Main provisions of agreement and contract.

) Land .- Provided by the Mysore Durbar at the cost of capital.

(ii) Government aid.—The line (which is the property of the Mysore Durbar) is maintained, stocked and worked by the Madras and Southern Mahratta Railway Company in all respects (except only as to capital expenditure which is provided by the Durbar) as part of their own undertaking.

(iii) Terms of working .-

(iii) Terms of working.

Maintenance and working expenses are calculated at the same proportion (iv) Distribution of profits.

of the gross earnings of the Branch as obtains on the Company's system, as a whole, including the Branch. But in the case of accident or damage caused by extrafrom the Company's revenue account before the percentage of working expenses referred to above is arrived at. The Company works the Branch for the maintenance and working expenses as above, plus cost of new minor works and 5 per cent of the gross carnings of the Branch for the use of rolling-stock, plus the amount due by the Branch for use of the joint station at Bowringpet. In addition the Company receives and the balance which remains after payment of interest on the capital expenditure of the Branch incurred after the 31st December 1907. Besides the "ordicontribution to the Provident Fund, the Branch is liable, when it earns more than 4 per cent on its capital outlay, for a further contribution amounting to the difference between the "ordinary" contribution and I per cent of its net receipts.

(v) Rates and fares .-

(vi) Special obligations as to the conveyance of .-(a) Mails, troops, police, high Government officials The same as from time to time obtain on and Government stores. the Company's lines. (b) Bullion and coin .-

(vii) Power of the Government to determine agreement .- Nil.

- (viii) Power of the Government to determine contract .- As in the case of Madras and Southern Mahratta
- railway (5' 6" gauge).

 (ix) Power of the Durbar to determine agreement.—Subject to six months' notice expiring only on the 30th June or the 31st December of any year.

(x) Power of the Durbar to determine contract .- Nil.

(xi) Power of the Company to determine agreement .- Subject to six months' notice expiring only on the 30th June or the 31st December in any year; and also to withdraw from the agreement if sanction be accorded to the construction of a competing line to the gold-fields.

(xii) Power of the Company to surrender contract.—Nil. (xiii) Term of agreement.—Not specified.

(xiv) Term of contract .- As in the case of Madras and Southern Mahratta railway (5' 6" gauge), ties of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

3	Year.	including susp to end of each year. including susp to end of each year. (i) lines open and (ii) lines partly or		Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
	1		2	33	4		6	7	8
			Miles.	Zs.	Re.	Re.		Rн.	
1908 . 1909 . 1913 .	. :	:	9:88 9:88 9:88	12,07,860 12,09,189 12,06,388	1,98,191 1,59,004 1,55,747	51,095 52,789 54,733	4·28 4·36 4·54	386 309 808	74°22 66°83 64°86
1911 . 1912 . let qr	. of	1913	9:88 9:88 9:88 9:88	12,06,678 12,06,635 12,06,635 12,08,566	1,74,398 1,53,341 45,990 1,73,840	63,927 58,791 20,664 65,189	5:30 4:87 1:71	839 298 358	68°84 61°66 55°07
1918-1- 1914-1: 1915-1: 1916-1: 1917-1:	5 . 6 . 7 .		9:88 9:88 9:58	12,00,832 12,09,192 12,09,193 12,12,706	1,77,599 1,71,811 1,69,802 1,71,628	66,006 70,145 71,833 79,971	5·39 . 5·46 5·80 5·94 6·59	388 846 334 391 834	69:50 69:88 59:17 57:70 53:40

Tenali-R epalle railway (5' 6" gauge)-

The construction of this line by the Madras and Southern Mahratta Railway Company, at the cost of the District Board of Guntur, was sanctioned in Railway Board's Notification No. 110, dated the 9th April 1918. Progress in opening-

		Section	n of railw	ъy.		Date of opening.	Miles.	Total.
			1 .		 	2	8	4
Tenali to Bepalle	•••	•••	•••		 ***	 8-3-16	\$1.50	21'80

Tenali-Repalle railway (5' 6" gauge)-concld.

Details of construction-

Permanent-way. - The line is laid with 75-lb. flat-footed British Standard steel rails on timber sleepers. Ballast .- The line is ballasted with sand.

Fencing. Only the station yards are fenced.

Curves.—The sharpest curve has a radius of 1,432 feet. Gradients. - The ruling gradient is 1 in 150.

The line is being worked under the terms of a contract which is under

Main provisions of contractconsideration. Statistics of working-

	Year. Mileage open at end of each year.		Total capital outlay, includ- ing suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction,	Gross earnings.	Net earn- ings.	Percentage of net earnings on total capital outlay given in column (3).	Earn- ings per mile per week.	Proportion of expenses to earnings.		
	ì			2	3	4	5	6	7	8
1915-16 1916-17 1917-18	•	•	:	Miles. 21.09 21.50 21.50	Es. 12,14,651 14,24,906 14,95,81 5	Rs. 3,169 1,96,811 1,09,583	Rs. 1,585 53,405 54,792	0°13 3°75 8°69	Rs. 75 96 98	50.00 50.00 50.00

Madras and Southern Mahratta railway (3' 33" gauge)-

The Madras and Southern Mahratta 3' 38" gauge railway is the former Southern Mahratta railway in amalgamation with the sections (Pakala to Dharmavaram and Katpadi to Gudur) of the South Indian railway taken over, and the lines formerly known as the Bellary-Rayadrug, Hospet-Kottur and Guntakal-Mysore Frontier railways.

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	Remarks.
1	2	3	4	5	6
Main line— Frontier to Castle Rock Castle Rock to Deuli Douli to Dhurwar Dharwar to Hospot Hospot to Bellary Bellary to Guntaka! Cumbakat to Nandyal Cumban to Tadopuli Camban to Tadopuli Tadopalli to Buzwada	3-2-88 15-6-87 24-1-87 1-7-85 24-3-84 16-5-87 11-7-87 15-6-90 3-10-89	3·63 2·75 56·90 101·25 40·51 29·99 90·25 63·18 122·41 2·97	512:94		• This section, which was opened throughout in 1871 as a 5'6" gauge branch of the former Modrae railway, was made over the former Southern Mahratta Railway.
Branches— Harihar branch— Hubli to Harihar	18-10-86	81.00			Company on lat February 1867 and converted to 3' 31" gauge on the 16th May 1887.
			£1.00		Į
Bijapur branch— Gadag to Hotgi	1-8-84	173 08	- 173.08		
Poona branch— Londs to Belgaum Belgaum to Mirej Mirej to Koregaon Koregaon to Ghorpuri Ghorpuri to Poona	21-3-87 22-12-87 2-5-87 18-11-86 4-10-90	31:80 85:88 76:00 83:07 0:91			
Guntakal-Mysore Frontier branch— Guntakal to Dharmavaram . Dharmavaram to Hindupur. Hindupur to Mysore Frontier	1-8-92 23-4-93 17-7- 98	62:95 49:28 7:27	277.68		
Bellary Rayadrug branch— Bellary to Rayadrug	1-7-05	83.35	119·50 33·35		
Hospet-Kottur branch— Hospet to Kottur Bamandruga to Nagalpuram Nagalapuram to Fortwall Fortwall to Kanivihalli	1-4-05 1-12-06 24-5-09 1-10-10	43-06 3-50 2-84 6-79	56.19		
Kalpadi-Dharmavaram branch— Kalpadi to Pakala Pakal to Vayalapad Vayalpad to Dharmavaram	16-8-91 1-1-92 20-3-92	39:48 46:69 94:14		,	
Pakala-Gudur branch— Pakala to Tirupati West Tirupati West to Gudur	18-8-91 15-9-87	25°05 59°05	180·31		
GRAND TOTAL, .		***		1,518-13	

Madras and Southern Mahratta railway (3' 3%" gauge) -concld.

Details of construction-

Permanent-way.-The rails in use are of 414-lb., 50-lb., 60-lb., and 62-lb., flat-footed steel. The sleepers are teak, sal, jamba, pine and Australian eucalyptus and steel trough.

Ballast.—The line is ballasted with stone, gravel, sand and moorum.

Fencing.—The lines from Hospet to Kottur and Bellary to Rayadrug are unfenced, those from Pakala to Dharmavaram and Katpadi to Gudur are fenced only at stations, and the rest are partially fenced. Curves .- The sharpest curve is of 578 feet radius.

Gradients.—The ruling gradient is 1 in 100, except on the Braganza Ghats (between miles 0 and 3 on the main line) and between Ramandrug and Kanivihalli, where the gradient is 1 in 40, and on the sections between Hospet and Kottur and Ballary and Rayadrug, where it is 1 in 60.

Contracts-

This line forms part of the Madras and Southern Mahratta projected railway within the meaning of the original contract of the 1st June 1882, as supplemented by the principal contract of the 26th June 1908, the main provisions of which are stated under Madras and Southern Mahratta railway (5' 6" gauge).

Statistics of working-

			INCLUDES	THE MADRAS	AND Sou	THERN MARI	TATTA HAILW	AY (5' 6" GA	UAK).			
Year.	Milengo open at end of each year.	Total capital outlay, in- cluding sus- pense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings,	Net earnings.	Percent- age of net earning- on total capital outlay given in column (3)	Interest.	Aussity,	Company's share of surplus pro-fits (based on terms of contract) attributable to each year.	guaranteed	Gain or loss to the State pertuining to each year.	mlle	Pro- portion of ex- penses to eara- ings.
1	2	3	4	5	6	7	8	0	10	11	12	18
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.		Rs.	Re.	
1908 1909 1910	2,542.85 2,545.74 2,552.53	29,65,72,872 30,21,58,743 30,63,87,664	2,82,50,970 2,97,72,171 3,11,30,143	97,98,140 1,19,36,693 1,30,92,155	3°30 3°95 4°27	85,17,070 91,55,944 92,69,791	59,81,910 73,25,715 73,25,715	5,84,313 5,58,508 8,19,124	4°24 4°24 4°59	-52,96,952 -51,01,474 -43,22,475	214 225 235	65:32 59:91 57:94
1911 1912	2,552°53 2,552°53	31,14,03,239 31,27,38,275	3,28,29,664 3,53,32,619	1,41,77,381 1,61,26,469	4·55 5·16	94,61,90 2 96,17,034	78,25,730 73,25,715	11,05,276 16,41,270	4:97 5:69	- 37,15,527 24,60,550	247 200	56.8 2 54 . 86
lst qr.	!										1	
1913. 1913-14 1914-15 1915-16 1916-17 1917-18	2,861/53 2,852/53 2,881/33 2,867/19 2,567/21 2,549/86	31,57,83,052 32,04,96,530 32,38,92,264 32,41,57,972 32,61,13,857 32,73,42,751	96,56,648 3,73,78,171 3,78,07,039 4,15,37,915 4,64,06,975 5,13,54,656	49,61,726 1,64,35,232 1,68,30,824 1,96,99,991 2,27,72,156 2,74,68,654	1 57 5:13 5:04 8:08 6:98 8:39	24,13,007 1,08,91,877 1,18,13,624 1,10,67,739 1,08,72,280 1,12,74,969	18,91,425 73,25,715 73,25,715 73,25,715 73,25,715 73,25,715	7,05,000 17,50,306 16,73,507 26,96,003 35,72,993 +19,07,196	1:82 5:85 5:73 7:09 8:26 10:04	+11,384 -85,41,666 -44,82,022 -13,83,466 +10,01,179 +39,55,674	291 281 281 313 348 388	48'62 55'91 56'28 53'57 80'93 46'82

Bezwada-Masulipatam railway (3' 33" gauge) --

Decoross	in	opening-
LIOKLOSS	111	obening.

Sections of railw	ay.							Date of opening.	Miles.	Total.
1							_	2	3	•
Bezwada to Masulipatam . Masulipatam to Masulipatam Port (Tidal Lock)	:	:		:	:	:	:	4-2-08 1-1-09	49·47 2·33	
			To	L	•	·				51.80

Details of construction-

Permanent-way.—The permanent-way consists of 411-lb. flat-footed steel rails on teak sleepers.

Ballast .- The line is ballasted 41 miles with stone and the remainder with sand.

Fencing .- The station yards only are fenced.

Curves.—The radius of the sharpest curve is 717 feet between Masulipatam and Tidal Lock. Gradients.—The ruling gradient is 1 in 200.

Agreement and contract-

Agreement, dated the 4th February 1908, between the District Board of Kistna and the Madras and Southern Mahratta Railway Company, as to maintenance and working, having effect from the 4th February 1908, the date of opening of the Branch.

Contract, dated the 26th June 1908 (called the principal contract), between the Secretary of State and the Madras and Southern Makratta Railway Company, as to the continuance of the existing agreement subject to the variations and modifications thereof as therein set forth.

^{*} The decrease is due to the discussiting of the Counter-Tenall branch.

* This amon represents the Company's due of our plan of the strainings for the year 1917-18 wines the commanded interest for the year on the Company's stock capital of 25,000,000. The surplus net earnings for the year 1917-18 were divided between Government and the Company in the proportion of 21,136,000 to \$5,000,000 which works out to a ratio of 9: 4.

Bezwada-Masulipatam railway (3' 3%" gauge) -concld.

Main provisions of agreement and contract

(i) Land .- Provided by the Government free of cost.

- The line (which is the property of the District Board of Kistna) is (ii) Government aid .-
- maintained and worked as an integral part of the Company's system (iii) Terms of working .-(iv) Distribution of profits .-) by the Madras and Southern Mahratta Railway Company, who provides the rolling-stock and other appliances, etc., necessary thereunto.

For these services the Company is to receive half-yearly 45 per cent of the gross earnings of the Branch the balance, after meeting the cost of new minor works, being handed over to the District

By way of rebate the Company is to pay to the District Board, in respect of and at the end of each year, such a sum not exceeding in any year 10 per cent of the share attributable to the Company's system of the gross earnings from traffic (except stores) interchanged between the Company's system and the Branch railway as shall, together with the net carnings of the Branch for such year, make up an amount equal to interest for the year at the rate of 31 per cent on the actual expenditure charged in its capital account.

(v) Rates and fares .-

(vi) Special obligations as to the conveyance of-

- (a) Mails, troops, police, high Government officials The same as from time to time obtain on the and Government stores. Madras and Southern Mahratta railway.
- (b) Government bullion and coin .--(vii) Power of the Government to determine agreement, .- The Government may purchase the Branch line at the expiry of 30 years, or at subsequent periods of 10 years, on twelve months' notice given, at a price 25 times the yearly average net earnings (excluding rebate payments) of three years preceding the purchase subject to a maximum price of 120 and a minimum of 100 per cent of cost
- price on a rupe basis.

 (viii) Power of the Government to determine contract.—As in the case of Madras and Southern Mahratta railway (5' 6" gauge).

 (ix) Power of the Kistna District Board to determine agreement.

 Nil.

 (x) Power of the Kistna District Board to determine contract.

 Nil.
- (xi) Power of the Company to determine agreement.

 (xii) Power of the Company to surrender contract.

 Nil.
- (xiii) Term of agreement [if not determined under (vii)].—Not specified.
 (xiv) Term of contract [if not determined under (viii)].—As noted under Madras and Southern Mahratta railway (5' 6" gauge).

Statistics of working-

Yoar.	Mileago open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net carn- ings.	Percentage of net earnings ou total capital outlay given in column (3).	Earn- ings per mile per week.	Proportion of expenses to earnings.
1	2	8	4	5	6	7	8
1908 1909 1910 1911 1911 1912 1st or 1913 1913-14 1914-15 1916-16 1916-17 1917-18	Miles, 49'47 51'80 51'80 51'80 51'80 51'80 51'80 51'80 51'80 51'80	Ra. 19, 02, 518 21, 24, 445 21, 15, 445 21, 15, 641 21, 19, 761 21, 19, 761 21, 19, 305 22, 04, 271 22, 03, 335 22, 15, 270 22, 13, 28, 119	Rs. 2,72,333 3,29,527 8,07,417 2,89,551 3,31,267 94,771 4,06,330 4,18,796 3,82,727 3,71,780	Rs. 1,49,783 1,80,804 1,66,821 1,57,954 1,81,732 52,124 1,94,187 2,23,174 2,29,699 2,03,020	8.51 7.73 7.24 8.27 2.37 8.81 10.13	Rs. 117 122 114 107 123 141 181 151 155 142 188	45.00 45.13 45.73 45.45 45.45 45.14 45.00 45.07 45.08 45.15 45.15

Birur-Shimoga railway (3' 33" gauge)-

Progress in opening-

	Se	ectio		vay.				Oute of opening.	Miles.	Total.
	 		1			 	 	 2	3	4
Birur to Shimoga .	•		•		٠		•	1-12-99	37-92	87-92

Details of construction

Permanent-way.—The permanent-way consists of 411-lb. flat-footed steel rails on Mysore teak sleepers. The Bhadra bridge is laid with 50-lb, flat-footed steel rails.

Ballast.-The line is ballasted throughout with stone and sand.

Fencing.—The line is unfenced except for a very short length.

Curves.—The sharpest curve is of 1,500 feet radius.

Gradients.—The ruling gradient is 1 in 89.

Agreement and contract-

Agreement, dated the 2nd December 1899, between the Government of His Highness the Maharaja of Mysore and the former Southern Mahratta Rathway Company, as to maintenance and working the Shimoga railway, with effect from 1st December 1899, supplementary to the provisions of the (Mysore) contract of the 31st August 1887, between the Secretary of State and the former Southern Mahratta Railway Company.

Rirur-Shimoga railway (3' 3% gauge) -concld.

Agreement and contract-concld.

Contract, dated the 26th June 1908 (called the principal contract), between the Secretary of State and the Madras and Southern Mahratla Railway Company, as to the continuance of the existing agreement subject to the variations and modifications thereof as therein set forth.

Main provisions of agreement and contract-

- (i) Land .- Provided by the Mysore Durbar at the cost of capital.
- (ii) Government aid.—The line (which is the property of the Mysore Durbar) is maintained, stocked and worked by the Madras and Southern Mahratta Railway Company in all respects (except only as to
- capital expenditure which is provided by the Durhar) as part of its own undertaking.

 (ii) Terms of working Maintenance and working expenses are calculated at the same proportive Distribution of profits.— Ition of the gross earnings of the Shimoga railway as (excluding the cost of new minor works attributable to the Mysore State lines and debitable direct to each of those railways to which the works pertain) obtains on the Company's system as a whole, plus 5 per cent of the gross earnings of the Shimoga railway for the use of the Company's rolling-stock with effect from 1st July 1908, plus the cost of new minor works, in each half-year. And in addition thereto the Company is, as from the 1st July 1908, entitled to $\frac{1}{10}$ th of the surplus of the net earnings of the Shimoga railway, after payment thereout of the interest payable on any capital expenditure incurred in respect of that line after the S1st December 1907. The residue is to be paid by the Company to the Durbar.
- (v) Rates and fares .-
- (vi) Special obligations as to the conveyance of-(a) Mails, troops, police, high Government officials and Government stores.— (b) Government bullion and coin .-
- The same rates as from time to time obtain on the Madras and Southern Mahratta railway. Except when specially sanctioned by the Government, no terminal charge is to exceed 3 pies per maund leviable only at stations of origin and destination.
- (vii) Power of the Government to determine accomment.—If not determined by the Durbar or the Company sconer, vide (ix) and (xi), then the agreement terminates simultaneously with the principal contract between the Secretary of State and the Company, dated the 26th June 1905.
- (viii) Power of the Government to determine contract .- As in the case of the Madras and Southern Mahratta railway (5' 6" gauge).
- (ix) Power of the Durbar to determine agreement.—The Durbar may determine the agreement on the 1st January or 1st July in any year after the year 1904 on 12 months' notice given.

 (x) Power of the Durbar to determine contract.—Nil.
- (xi) Power of the Company to determine agreement. As noted under (ix).
- (xii) Power of the Company to determine contract .- As in the case of the Madras and Southern Mahratta railway (5' 6" gauge).
- (xiii) Term of ogreement .- As noted under (vii)
- (xiv) Term of contract .- As noted under the Madras and Southern Mahratta railway (5' 6" gauge).

Statistics of working .-

Included with the Mysore section (Modres and Southern Mahratta) (3' 32" gauge).

Dhone-Kurnool railway (3' 33" gauge)-

Progress in opening-

Section of railway.	Date of opening.	Miles.	То
1	2	3	4
Dronachollam to Kurnool	1-1-09	33.00	::2:00

Details of construction-

Permanent-way.-The permanent-way consists of All-Ib, second-hand that-footed steel rails and old. pattern second-hand steel sleepers.

Ballast .- The ballast consists of sand throughout.

Fencing .- The station yards only have Men formed.

Curves .- The sharpest curve is of 1,146 feet racius.

Gradients.-The ruling gradient is 1 in 10 .

Agreement-

Dated the 15th September 1911, between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to maintenance and working with effect from 1st January 1909.

Main provisions of agreement --

- (i) Land.—Provided by the Government at the cost of capital.
 (ii) Government aid.— } The line was constructed by the agency of the Madras and Southern Mahratta
 (iii) Terms of working.— } Railway Company from funds supplied by the Government, whose property it absolutely is and who will provide any such and all moneys that may, at any time, be required for the purposes of capital expenditure on the Dhone-Kurnool railway. Subject to the general control of Government in every respect, the line is maintained, stocked and worked by the Company, for and on behalf of the State, on the following terms and conditions :-176RAR 23 .

Dhone-Kurnool railway (8' 32" gauge)-concld.

Main provisions of agreement-concld.

The gross receipts of the Dhone-Kurnool railway are charged with-

- (a) the actual cost of maintenance of way and works (including revenue new minor works mentioned in clause 18), other than general supervision usually chargeable to Abstract A of the Standard form of Revenue Account prescribed for use on the Company's railway;
- (b) a share of the other half-yearly working expenses of the Company's railway system (excluding the cost of Government supervision and control for which no such charge will be levied against the Company in respect of the working of the Branch, but including the cost of general supervision usually chargeable to Abstract A), calculated at the same proportion of the gross receipts of the Branch as obtains on the Company's system, including the Branch, as a whole :
- (c) 5 per cent of the gross receipts of the Branch for the use of the Company's rolling-stock;
- (d) Rent and maintenance of works, buildings and premises within the limits of Dronachellam Junction station as indicated in clause 12.
- (iv) Distribution of profits. -- After deducting from the gross receipts of the Branch railway the working expenses above mentioned, the balance belongs to the Government.
- (v) Rates and fares .-
- (vi) Special obligations as to the conveyance of .
 - officials and Government stores .-
 - Subject to the same maxima and minima, rules, (a) Mails, troops, police, high Government | conditions and arrangements as from time to time obtain on the Madras and Southern Mahratta Rail-J way Company's railways.
- (b) Government bullion and coin. (vii) Power of the Government to determine agreement.— Determinable by either party on the 30th June (viii) Power of the Company to determine agreement.— or 31st December of any year on six months. notice given.

(ix) Ferm of agreement .- Not specified. Statistics of working-

fear.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net carnings.	Percentage of not earnings on total capital outlay given in column (3).	Interest.	State per-	per week.	Proportion of expenses to earnings.
1	3	3	4	5	6	7	8	9	10
	Miles.	Rs.	Rs.	Rs.		Re	Ks.	Rs.	
1909	32:00	9,25,342	1,29,768	47,128	5.09	28,239	+18,889	78	63.63
1910	32.00	2,50,923	99,240	33,653	3.54	31,918	+1.735	60	66.09
1911	:200	9,74,171	1,10,927	29.077	2.98	32.650	-3.573	67	73.79
1912	32.00	10,05,422	1,18,005	39,279	3.91	31,147	+5,132	7i	66.71
1st qr. of				,		0.,.2	. 0,102	1 11	00 11
1913.	32.00	10,06,675	34,179	13,696	1:36	8.554	+ 5,142	82	59.93
1913-14	32·0e	10,08,750	1,23,739	44,872		31,914	+ 9,958	74	68.74
1914-15	32.00	10,07,689	1,12,693	40,775		85,290	+ 5,495	68	63.82
1915-16	32.00	10,08,669	1.31.028	53,135		35,009	+ 18,426	79	59°22
1916-17	3100	10,16,599	1,40,000	55,218		33,381	+21,837	84	60.25
1:)17-18	32 00	10,18,342	1,20,216	16,894		35,336	+11,558	72	
		,	.,,	,	****	(10,100	T11,000	(2,	60.99

Hindupur (Yesvantpur-Mysore Frontier) railway (3' 3\square gauge)-Progress in opening -

Sections of railway.	Date of opening.	Miles,	Total.	Remarks.
Yesvantpur to Dodballapur. Dodballapur to Mysore Frontier. Total.	15-12-92 17-9-93	3 * 19*93 31*42	·	*Of this 6.85 miles, between Yesvantpur and Yelahanks, are on a mixed (3 '84" and 2' 6")

Details of construction-

Permanent-way.—The rails on the ghat section are 50-lb. flat-footed steel, State railway type, and 412-lb. flat-footed steel on the remainder of the line. The sleepers are Mysore teak throughout. Ballast .- The line is ballasted throughout with stone.

Fencing .- The line is fenced throughout.

Curves .- The sharpest curve has a radius of 660 feet.

Gradients .- The ruling gradient is 1 in 100 with a 1 in 89 gradient on the ghat section.

Agreement and contract

Agreement, dated the 2nd December 1899, between the Government of His Highness the Maharaja of Mysore and the former Southern Mahratta Railway Company, having effect from 17th September 1893, supplementary to the provisions of the (Mysore) contract of the 31st August 1887, between the Secretary of State and the former Southern Mahratta Railway Company, noted under Madras and Southern Mahratta railway (5' 6" gauge).

Contract, dated the 26th June 1908 (called the principal contract), between the Secretary of State and the

Madras and Southern Mahratta Railway Company, as to the continuance of the existing agreement

subject to the variations and modifications thereof as therein set forth.

Main provisions of agreement and contract-

As noted under the Birur-Shimoga railway.

Statistics of working-

Included with the Mysore Section (Madras and Southern Mahratta).

Kolhapur State railway (3' 3%" gauge)-

Progress in opening-

Section of railway.	Date of opening,	Miles.	Tota.
1	2	3	4
Kolhapur to Miraj	21-4-91	29.27	29-27

Details of construction-

Permanent-way.—The permanent-way consists of 411-lb. flat-footed steel rails on steel trough sleepers. Ballast .- The line is ballasted throughout with gravel and sand.

Fencing.—The line is unfenced except for a very short length.

Curves.—There are no curves with a radius of less than 1,000 feet.

Gradient .-- The ruling gradient is 1 in 100.

Agreement and contract-

Agreement, dated the 17th July 1891, between the Kolhapur Durbar and the old Southern Makratta Railway Company, as to maintenance and working, having effect from 21st April 1891.

Contract, dated the 26th June 1908 (called the principal contract), between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to the continuance of the existing agreement, subject to the variations and modifications thereof as therein set forth.

Main provisions of agreement and contract-

- (ii) Land.—Provided by the Kolhapur Durbar at the cost of capital.

 (ii) Government aid.—The line is the property of, and was constructed by, the Kolhapur Durbar, who supply funds for any necessary additions thereto. It is maintained, stocked and worked by the Madras and Southern Mahratta Railway Company.

 (iii) Terms of working.—

 From the total expenses of maintaining and working the Company's system, including the Kolhapur State railway, as a whole, are deducted
- fils.— charges for new minor works and Government supervision debitable direct to each of the railways concerned, and the balance is divided between the two railways in the fils .ratio of the gross earnings of each.

From the gross earnings of the Kolhapur State railway are then deducted the charges for new minor works and the proportion of working expenses attributable to that line as noted above, and the remainder, representing its net earnings, is paid half-yearly to the Durbar.

- (v) Kates and fares .-
- (vi) Special obligations as to the conveyance of .-(a) Mails, troops, police, high Government officials and Government stores.—

The same as, for the time being, are in force on the Madras and Southern Mahratta railway.

(vii) Power of the Government to determine agreement. - Not specified.

- (viii) Power of the Durbar to determine agreement .-The agreement is terminable upon one notice from either party to the agreement. The agreement is terminable upon 6 months?
- (ix) Power of the Company to determine agreement.—
 (x) Power of the Government to determine contract.-As in the case of the Madras and Southern

Mahratta railway (5′ 6″ gauge). (xi) Power of the Company to determine contract .-

(xii) Power of the Durbar to determine contract.—I (xiii) Term of agreement.—As against (viii) and (ix).

(b) Government bullion and coin .-

(xiv) Term of contract .- As noted under the Madras and Southern Mahratta railway (5' 6" gauge).

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

	Ye.	ar.		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Not earnings.	cf net carnings on total capital outlay given in column (3).	Earnings per mile per week.	Proposition of expension to carnings.
	1			2	3	4	5	6	7	8
				Miles.	Rs.	Rs.	Rs.		Rs.	
1908 1909 1910	:	:	:	29·27 29·27 29·27	28,26,251 28,26,251 23,26,251	2,22,260 2,26,772 2,53,956	88,154 91,612 1,10,093	3·79 8·94 4·73	146 149 167	60 54 59:60 56:65
1911 1912	:	:	:	29·27 29·27	20,26,251 23,26,251	2,79,662 3,17,453	1,23,893 1,47,272	5·30 6 ·33	164 209	55-88 58-61
1st qr 1913-14 1914-15 1915-16 1916-17	; ; ;	18	:	20*27 29*27 29*27 29*27 29*27 29*27	13,26,251 13,26,251 23,26,251 23,26,251 28,26,251 28,26,251	1,04,973 3,41,236 3,10,588 3,24,162 3,27,117 8,64,304	54,628 1,53,844 1,38,449 1,56,223 1,62,122 1,96,042	2:35 6:61 5:95 6:72 6:97 8:43	276 224 204 218 215 289	47:80 54:92 48:42 51:81 50:44 46:19

Mysore-Nanjangud railway (3' 3% gauge)—

Progress in opening-

	Se	otion	e of	railw	uy.									Date of opening.	Miles.	Total.
Mysore to Nanjangud Nanjangud to Nanjangud town		:	. 1		:	•	:	:	•	•	:	:	-	2 1-12-91 12-7-99	3 15'04 0'76	4
											To	I AT				15.80

Details of construction-

Permanent-way.—The permanent-way consists of 414-lb. flat-footed steel rails, mostly on Mysore teak with a mixture of jamba sleepers.

Ballast.—The line is ballasted throughout with stone and sand.

Fencing .- The line is partially fenced.

Curves .- The sharpest curve has a radius of 700 feet.

Gradients .- The ruling gradient is 1 in 82.

Agreement and contract-

Agreement, dated the 14th December 1899, between the Government of His Highness the Maharaja of Nysore and the former Southern Mahratta Railway Company, as to the maintenance and working of the Nanjangud railway, having effect from the 1st December 1891, supplementary to the provisions of the (Mysore) contract of the 31st August 1887, between the Secretory of State and the former Southern Mahratta Railway Company.

Southern Mahratta Railray Company.

Contract, dated the 26th June 1908 (called the principal contract), between the Secretary of State and the Madras and Southern Mahratta Railray Company, as to the continuance of the existing agreement subject to the variations and modifications thereof as therein set forth.

Main provisions of agreement and contract-

As noted under the Birur-Shimoga railway (3' 33" gauge), with the following exception, viz.—

Power of the Durbar to determine agreement.—On the 1st January or 1st July in any year on 6 months' notice being given.

Statistics of working-

Included with the Mysore Section (Madras and Southern Mahratta).

Mysore Section (Madras and Southern Mahratta) (3' 3a" gauge.)

Progress in opening-

		 Sect	ions	of re	ilwa	y.						Date of opening.	Miles.	Total.
					٠,		 		 			2	3	4
Mysore toMandya		 	- •					-				25-2-89	27.97	
Mandya to Channapatna			·	•	- :	:	Ċ	Ċ		-		20-3-81	23.81	
Lannapatna to Bangalo	re	i,		- 1		- 1				·		1-2-81	34.75	
Bangalore to Tunkur												11-8-34	43.00	
amkur to Gubbi											. 1	26-12-84	11.00	
inbbi to Birur												12-8-89	76:57	
Sirur to Harihar												21-2-89	79.69	•
						ı			Тот	AT.		•••		2 96·2 8

Details of construction-

Permanent-way.—The permanent-way consists of 414-lb. and 60-lb. flat-footed steel rails, with the exception of about 2.75 miles which are laid with iron rails. The rails are laid on Mysore teak sleepers with a small proportion of jamba and steel trough sleepers.

Ballast.-The line is ballasted throughout with stone and sand.

Fencing .- The line is only partially fenced.

Curres. - The sharpest curve has a radius of 660 feet.

Gradients.—The ruling gradient is 1 in 100 between Haribar and Bangalore, and 1 in 70 between Bangalore and Mysore.

Contracts-

Dated the 31st August 1887, between the Secretary of State and the former Southern Mahratta Railway Company, as to the construction, maintenance and working of the Mysore State railway.

Dated the 26th June 1908 (called the principal contract), between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to the continuance of the existing contract subject to the variations and modifications there is as therein set forth.

Main provisions of contracts-

- (i) Land .- Provided by the Government on behalf of the Mysore Durbar at the cost of capital.
- (ii) Government aid.—The railway, which (as between the Government and the Company, and without prejudice to any arrangements between the former and the Mysore Durbar) is declared to be absolutely the property of the Government, was constructed and equipped with rolling-stock and all other appliances necessary thereunto, and is maintained and worked by the Madras and Southern Mahratta Railway Company, on behalf of the Government. All funds for capital expenditure are provided by the Durbar, under capital expenditure being included the cost of stores.

Government guarantee interest in sterling, payable half-yearly on the 1st April and 1st Octobes, at the rate of 4 per cent per annum on the sum of £1,200,000, the nominal amount of debenture stock issued by the Company.

Mysore section (Madras and Southern Mahratta) (3' 33" gauge)—concid.

- (iii) Terms of working. _____ From From the joint working expenses of the entire system are first deducted certain "direct" charges, viz., on account of new minor works,
- (iv) Distribution of profits.—) Government supervision and control, payment for use of rolling-stock and for use of joint stations; these "direct" charges being payable in their entirety by the railways incurring them. The balance of the joint working expenses is then divided as between the whole system and the Mysore section in proportion to gross earnings of each. The share of the Mysore section thus arrived at, added to the "direct" charges incurred on that section, form the working expenses of the Mysore section.

The gross receipts attributable to the Mysore section are applied-

- (a) in discharge of the working expenses arrived at as above, and
 (b) in payment of interest at 4 per cent on capital expenditure incurred on the section since 31st December 1907;
 - (c) the surplus being divided between the Government (on behalf of the Durbar) and the Company in the proportion of 19/20 and 1/20, respectively.
- (v) Rates and fures .-
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores
- (b) Government bullion and coin -
- (vii) Power of the Government to determine contract .-(viii) Power of the Company to determine contract .-
- (ix) Term of contract -

Statistics of working (Those for the periods prior to 1887 will be found in Appendix 38 to the Railway Administration Report for 1907.)— Includes the Birur-Shimoga, Hindupur (Yesvantpur-Mysore Frontier) and Mysore-Nanjangud railways

As in the case of the Madras and Southern

railway (5' 6" gauge).

Mahratta

Year.	Mileage open at ond of each year.	Total capital outlay, including suspense, to efid of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net carnings on total capital outlay given in column (3).	Interest.	Company's share of surplus profits (based on terms of contract) attributable to each year.	İ	Earnings per mile per week.	Pro- por- tion of er pens es to earn ings
1	2	8	4	5	6	7	8	9	10	11
1887 1888 1889 1890	Miles. 139:75 139:75 290:00 296:00	Bs. 91,36,438 1,25,76,692 1,43,24,093 1,47,11,610	Rs. 5,13,259 5,70,657 8,98,273 11,86,318	Ks. 1,40,723 1,34,031 2,19,813 2,59,084	1·54 1·07 1·52 1·76	Rs. 6,70,864 6,94,210 7,07,500 6,48,733	Rs. 35,018 33,607 54,991 61,772	Rs. -5,65,159 -5,93,786 -5,42,678 -1,54,421	Rs. 71 79 72 77	72:1 76:1 75:4 78:1
1891	296:00	1,50,76,285	13,24,525	4,39,280	2:91	6,54,850	1,09,760	-3,25,330	86	66.8
1892	296:00	1,46,36,205	13,99,463	4,43,427	3:03	7,29,624	1,10,863	-3,97,060	91	68.3
1993	296:00	1,46,42,217	16,83,203	6,74,562	4:61	7,70,489	1,68,171	-2,64,048	109	59.9
1894	296:00	1,47,60,293	14,45,412	4,77,149	8:23	8,38,525	1,19,039	-4,80,415	94	66.9
1895	296:00	1,49,22,452	15,78,281	6,29,385	4:22	8,70,947	1,56,931	-3,98,493	108	60.1
1896	296:00	1,51,08,257	15,84,981	6,76,976	4·48	8,21,588	1,69,189	-3,13,801	103	57°
1897	296:00	1,51,99,757	18,80,019	7,98,285	5·25	7,75,708	2,00,031	-1,77,454	122	57°
1898	296:00	1,55,07,319	13,92,851	4,13,421	2·67	7,38,461	1,02,680	-1,27,720	90	70°
1899	296:00	1,56,75,416	10,60,469	3,29,083	2·10	7,21,117	82,076	-4,74,160	69	68°
1900	296:00	1,58,70,510	13,76,391	4,71,201	2·97	7,18,200	1,18,888	-3,65,887	89	65°
1901	296·36	1,60,14,879	14,33,240	4,07,791	2·55	7,22,244	1,01,860	- 4,16,313	93	71
1902	296·22	1,60,76,000	15,97,046	5,58.082	3·47	7,21,062	1,39,538	-3,02,518	104	65
1903	296·22	1,62,34,903	15,35,270	5,82,298	3·59	7,20,000	1,46,012	-2,88,714	100	62
1904	296·22	1,62,59,794	15.85,324	5,63,667	3·47	7,20,000	1,40,940	-2,97,273	103	64
1905	296·22	1,64,78,981	17,90,901	6,98,051	4·24	7,20,000	1,73,883	-1,95,882	116	61
1906	296·22	1,65,59,502	18,48,348	7,19,072	4:34	7,20,000	1,79,500	-1,80,428	120	61
1907	296·22	1,70,31,855	21,57,636	8,44,427	4:96	7,20,000	2,11,472	-87,045	140	60
1908	401·29	2,29,75,768	30,71,949	11,66,353	5:08	8,64,949	1,51,026	+1,50,378	147	62
1909	401·29	2,32,36,445	26,71,013	10,67,326	4:59	10,43,593	55,889	-31,656	128	60
1910	401·29	2,85,17,190	28,00,896	11,28,684	4:80	10,48,897	57,763	+22,024	184	59
1911	401 29	2,36,85,996	28,55,654	12,07,863	5·10	10,60,843	61,457	+ 85,563	137	57
1912		2,37,80,303	33,53,931	14,93,756	6·28	10,63,291	75,262	+ 3,55,203	161	55
1st qr. of 1913 1918-14 1914-15 1915-16 1916-17 1917-18	401 29 401 85 401 85 401 85 401 35	2,40,63,067 2,43,70,036 2,42,14,450 2,43,43,685 2,44,88,478 2,47,22,416	9,40,540 36,51,923 34,77,899 35,94 259 88,16,213 89,75,988	4,75,274 15,89,726 14,82,838 16,67,478 18,27,236	1 98 6 52 6 12 6 85 7 46 8 40	2,67,455 10,75,557 10,83,776 10,86,828 10,88,546 10,97,276	90,018	+1,83,687 +4,34,333 +3,25,081 +4,97,254 +6,48,672 +8,74,236	180 175 167 172 183 191	49 56 57 58 52 47

Sangli State railway (3' 3#" gauge)-

Progress in opening

	Sec	tion	of	railv	vay.								Date of opening.	Miles.	Total
			1						-			 _	2	8	4
Miraj Junction to Sangli	•			•		. •	•	•	•	•	٠	•	1-4-07	4.90	4:90

Sangli State railway (8' 3%" gauge) -- concld.

Details of construction-

Permanent-way. - The permanent-way consists of second-hand 411-lb. flat-footed steel rails on teak aleepers.

Ballast .- Ballast is chiefly moorum.

Fencing .- The line is not fully fenced, but only where necessary.

Curves.—The sharpest curve has a radius of 1,011 feet.

Gradients - The ruling gradient is 1 in 80.

greements and contract

Statistics of working-

Agreement, dated the 17th July 1907, between the Sangli Durbar and the former Southern Mahratts Railway Company, as to the construction of the Sangli State railway.

Agreement, dated the 17th July 1907. hetween the Sangli Durbar and the former Southern Mahrotta Kailway Company, as to the maintenance and working of the Sangli State railway.

Contract, dated the 26th June 1908 (called the principal contract), between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to the continuance of the existing agreements subject to the variations and modifications thereof as therein set forth.

- Main provisions of agreements and contract—

 (i) Land.—Provided by the Sangli Durbar free of cost.

 (ii) Government aid.—The Sangli State railway was constructed by the former Southern Mahratta. Railway Company from funds supplied by the Durbar, whose property it is and who will provide all further funds that may be necessary for new works chargeable to Capital. The Branch is maintained, stocked and worked by the Company.
- (iii) Terms of working.— From the total expenses of maintaining and working the Company's
 (iv) Distribution of profits.— system, including the Sangh State railway, as a whole, are deducted charges for new minor works and Government supervision debitable direct to each of the railways concerned, and the balance is divided between the two railways in the ratio of the gross earnings

From the gross earnings of the Sangli State railway are then deducted the charges for new minor works and the proportion of working expenses attributable to the Branch as noted above, and the remainder, representing its net earnings, is paid half yearly to the Durbar.

(v) Rates and fares -(vi) Special obligations as to the conveyance of-The same as, for the time (a) Mails, troops, police, high Government officials and Government being, are in force on the Madras stores -and Southern (b) Government bullion and coin .-Mahratta railway.

(vii) Power of the Government to determine agreement .- Not specified.

) The agreement is terminable at the end of any (viii) Power of the Durbar to determine agreement,year upon 6 months' notice from either party (ix) Power of the Company to determine agreement .to the agreement.

(x) Term of agreement .- As against (viii) and (ix).

Year.	Mileage open at end of each year.	Total capital outlay, including sungense, to end of each year, i.e. outlay on (f) lines open and (ii) lines partly or wholly under construction.	Gross carnings,	Net carnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings
1	2	8	4	5	6	7	8
1908	Miles. 3-90 4-90 4-90 4-90 4-90 4-90 4-90	Re. 1,66,392 1,69,903 1,75,091 1,77,254 1,77,787 1,71,787	Rs. 33,321 40,738 43,136 43,963 39,197 10,915 39,860 38,358	Rs. 13,402 15,712 18,176 19,276 18,124 5,680 17,958	8.05 9.25 10.28 10.87 10.19 3.19 10.10	Ha. 131 160 169 172 154 171	59-78 61-48 57-86 56-55 53-76 47-96 54-95
1914-15 1915-16 1916-17 1917-18	4.90 4.90 4.90	1,77,787 1,77,787 1,77,787 1,82,649	38,358 42,265 44,877 49,281	16,930 20,879 32,012 25,019	9:52 11:46 12:38 13:70	151 166 •176	55.86 55.78 50.95 49.18

West of India Portuguese railway (3' 3 gauge) --

Chairman.-Ernest E. Sawyer, Esq., M.A. Secretary .- George K. Wasey, Esq.

Offices.—4, Coleman Street, London, E.C.
The line was constructed with the object of connecting the British and Portuguese territories and of affording the Southern Mahratta country a harbour on the West Coast. The Southern Mahratta railway took over the working of the line as from the 1st July 1902. Progress in opening

Sections of railway.										Date of opening	Miles.	Total.
Mormugae Harbour to Sonaulim Sonaulim to the Portuguese frontier	;	:	:	:	:	:	-	:	:	17-1-87 3-2-88	3 41.00 10.10	•
**						Ton	ra L	<u>.</u>				51-10

West of India Portuguese railway (3' 3%" gauge)-contd.

Details of construction-

The permanent-way.—The permanent-way consists of 60-lb, and 62-lb, flat-footed steel rails on creosoted pine. sal, teak and jamba sleepers.

Ballast .- The line is ballasted throughout with laterite and blue stone.

Fencing .- The line is partially fenced.

Curves .- The sharpest curve is of 720 feet radius.

Gradients.—The ruling gradient is 1 in 100 with a 1 in 40 on the Ghat section.

Contracts and agreement-

Contract, dated the 18th April 1881, between the Portuguese Government and the West of India Portuguese Railway Company, as to the construction of a harbour at the Port of Mormugao and a railway from Mormugao to the Portuguese Frontier.

Contract, dated the 19th December 1892, between the Portuguese Government and the West of India Portuguese Railway Company, providing for the guarantee of interest on the Company's capital in consequence of the essation of the annual subsidy of Rs. 4,00,000, which was formerly paid by the British to the Portuguese Government and hypothecated by the latter to the

Agreement, dated the 21st August 1902, between the former Southern Mahratta Railway Company and the West of India Portuguese Railway Company, as to the maintenance and working of the railway from Mormugao to the Portuguese Frontier and the harbour at the Port of Mormugao.

Contract, dated the 26th June 1908 (called the principal contract), between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to the continuance of the existing contracts and agreement, subject to the variations and modifications thereof as therein set forth.

Main provisions of contracts and agreement—
(i) Land.—Provided by the Portuguese Government free of cost to the West of India Portuguese

Railway Company.

(ii) Government aid.—Guarantee by the Portuguese Covernment of interest in sterling at 5 per cent per annum on £800,000, and at 6 per cent per annum on any additional capital. The interest is secured (a) on any annual subsidy payable by the British or the British Indian Government to the Portuguese Government, and (b) on the Abkari (excise) duties levied in Goa. Any deficiency is, however, to be made up by the Portuguese Government from other sources.

The line, which is the property of the West of India Portuguese Railway Company, is maintained and worked by the Madras and Southern Mahratta Railway Company as part of the latters undertaking, except as to further capital expenditure which is provided by the Portuguese

Government.

(iii) Terms of working.— As between the Madras and Southern Mahratta and West of India Portu(iv) Distribution of profits.—) guese Railway Companies.—Railway revenue expenses are in the first instance paid by the Madras and Southern Mahratta Railway Company. Separate half-yearly accounts are kept of the gross earnings respectively of the Madras and Southern Mahratta railway and the West of India Portuguese railway. The gross working expenses of the combined railways (excluding revenue expenditure on new minor works which is borne entirely by the railway—whether the Madras and Southern Mahratta or the West of India Portuguese—incurring it and is in either or both cases excluded from the joint working expenses, and interest payable by the Madras and Southern Mahratta Railway Company on the capital cost of telegraph lines equipped and owned by the Government of India) are borne by the two Companies in the proportion of their respective gross earnings for each half-year.

As to Harbour receipts and expenses, a separate account is kept of all sources of revenue at the Pert of Mormugao. The amount chargeable by the Madras and Southern Mahratta Railway Company for maintenance and working is actuals, plus 10 per cent thereon for superior supervision, subject to the proviso that if in the aggregate they (without the sanction of the West of India Portuguese railway) exceed the mean of the figures which represent the relation of such expenditure to receipts during the years 1895, 1896 and 1899, any such excess is to be annulled, or reduced as much as possible by a corresponding dimination in the charge for super-

vision.

The profits arising from the West of India Portuguese railway, being the excess of earnings over working expenses so calculated, are to be paid half-yearly by the Madras and Southern Mahratta Railway Company to the West of India Portugueso railway.

Note. - At the desire of the Board of the West of India Portuguese Railway the Secretary of State
has agreed to 80 per cent of the net earnings of each month being paid to the Joint Representative in India as soon as the accounts of each month are completed. (India Office letter No. P.W.-2962, dated the 27th December 1912).

(v) Distribution of profits as between the Portuguese Government and the West of India Portuguese Railway Company.—The surplus profits in any year, after payment of the guaranteed interest for that year, are to be divided equally between the Portuguese Government and the West of India

Portuguese Railway Company.

(vi) Rates and fares.—The maximum rates and fares to be fixed with the consent of the Portuguese Government, and not to exceed the maxima on the Great Indian Peninsula railway; they are also subject to the maxima and minima prescribed in the contracts between the Secretary of State for India and the Madras and Southern Mahratta Railway Company.

(vii) Special obligations as to the conveyance of-

(a) Mails, both British and Portuguese .- To be conveyed on the West of India Portuguese railway upon the terms of the Treaty of 1878. (b) Portuguese Government troops, officials, and Government stores.—To be conveyed on the West of India Portuguese railway on the same conditions as on Indian State railways.

West of India Portuguese railway (3' 8\frac{g}{g} gauge)—concld.

Main provisions of contracts and agreement—concld.

(viii) Power of the Portuguese Government to determine contract.—The Portuguese Government may purchase the railway and all other works-

(a) at any time by giving six months' notice;

(6) at any time after the expiration of the first 30 years from the date of opening of the railway or any section thereof, by giving two years' notice.

In the first case the Portuguese Government must pay to the Company in London a sum in sterling not less than the amount actually expended by the Company on the railway and other works, with 10 per cent added, and the value of the rolling-stock, machinery, station appliances and stores.

In the second case the price to be paid by the Portuguese Government is a sum in sterling equal to the amount of the value of all the shares, debentures and stock of the Company calculated according to the mean market value in London during the three years immediately preceding the expiration of the two years' notice (such sum not to be less than the amount actually expended by the Company on the railway and other works), plus the value of the

rolling-stock, machinery, station appliances and stores.

At the expiration of the term of the contract [99 years, see (xii),] the line becomes the property of the Portuguese Government, but the rolling-stock, machinery, station appliances and stores, and any other movable property or plant, have to be paid for at their fair value.

- (ix) Power of the West of India Portuguese Railway Company to surrender contract. The West of India Portuguese Railway Company may make over the railway and works to the Portuguese Government-
 - (a) in the event of failure on the part of the Portuguese Government to pay the guaranteed interest in full, by giving six months' notice;
 - (b) at any time after the expiration of the first 30 years from the date of opening of any section of the line without renewal of the Treaty of 1878, by giving two years' notice.

In the first case the West of India Portuguese Railway Company would be entitled to receive from the Portuguese Government, in sterling, the amount actually expended on the railway and works, with 10 per cent added, and the value of the rolling-stock, machinery, station appliances and stores: in the second case, the same amount, less the additional 10

per cent on the expenditure on the railway and works.

(x) Power of the Madras and Southern Mahratla Railway Company to determine agreement. (xi) Power of the west of India Portuguese Railway Company to determine agreement.— Determinable by either party at the end of two years from the 1st July 1902 (the date on which it came into force) on 6 months' notice given, reckoned either from the 30th June or the 31st

December next after the delivery of such notice.

Upon the determination of the agreement the Madras and Southern Mahratta Railway Company to surrender to the West of India Portuguese Railway Company the railway and harbour and their equipment, etc., and to pay to the latter all money held on account of the railway.

(xii) Term of contract [if not determined under (ix), (x) or (xi)]. +99 years from the date of opening of the line.

(xiii) Term of agreement [if not determined under (x), or (xi)] .- The term of agreement is 5 years, * Since extended to 30th June 1922, vide Despatch from the Secretary of State No. 17 Railway, dated the 4th May 1917.

unless extended* with the consent of both parties, when the West of India Portuguese Railway Company have the right to resume the working of their line and harboar.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

Includes the Harbour works.

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.		Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week,	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8
1908 1909 1910 1911 1912 1st qr. of 1913, 1913-1s 1914-15 1915-16 1916-17 1917-18	Miles. 51:10 51:10 51:10 51:10 51:10 51:10 51:10 51:10 51:10 51:10 51:10	. Rs	88. 10,64,804 9,60,285 12,64,030 12,20,715 9,91,479 2,93,648 11,76,901 8,51,382 7,94,409 3,24,195 7,71,769	Re. 3,92,394 3,75,092 5,42,226 5,83,068 4,12,657 1,20,147 5,24,128 8,47,839 8,28,905 2,95,456 2,88,314	2:30 2:13 3:07 3:00 2:25 0:65 2:84 1:82 1:69 1:51	Re. 401 361 476 459 874 442 443 321 299 310	63:15 60:93 57:10 56:35 58:38 55:06 55:47 59:14 56:59 64:15

Alnavar-Dandel i railway (3' 38" gauge)—

The construction of this line by the Madras and Southern Mahratta Railway Company from funds provided by the State was sanctioned in Railway Board's Notification No 825 P-16, dated the 31st January 1918.

Progress in opening.—			
Section of railway.	Date of opening.	Miles.	Total.
1	2	8	•
Alnavar to Dandeli (sanctioned on 31st January 1918)	•••	19.12	19:12

NIZAM'S GUARANTEED STATE RAILWAYS SYSTEM --

Chairman-Charles Albert Winter, Esq.

Secretary-M. T. Walker, Esq.

Offices-Winchester House, 50, Old Broad Street, London, E.C.

Date of registration of the Company-24th December 1883.

Zines comprised in the system.—The Nizam's Guaranteed State railways system is made up of—

					Open line. Miles.	Under construction or sanctioned for construction. Miles.	Total.
(a) Nizam's Guaranteed State railway (5' 6" gauge)					390.18	•••	880-18
(b) Bezwada Extension railway (5' 6" gauge) .					21.47	,	21.47
(c) Hingoli Branch railway (3' 32" gauge)					50.31	•••	50.81
(d) Hyderabad-Godavari Valley railway (8' 3''' gauge)				391.13		391-18
(e) Secunderabad-Gadwal railway (3' 8}" gauge)					103-30	13:45	116.75
			Tot	ta.i	896'34	18:45	909.79

Nixam's Guaranteed State railway (5' 6" gauge)-

Up to the end of 1878 the line was worked by the Great Indian Peninsula Railway Company with its own relling-stock. From January 1879 to the 31st December 1884 it was worked by State Railway agency, and from January 1885 by the Nizam's Guaranteed State Railways Company.

Progress in opening-

Sections of railway.				Date of opening.	Miles.	Total.	Grand total.	Remarks.
1		-	2	3	4	5	6	
Warangal to Dornakal Dornakal to Bona Kalu Bona Kalu to the British frontier Branches—			-	9-10-74 8-4-86 1-1-89 5-8-88 10-2-89	115:45* 86:66 52:66 31:99 23:54	310-30		* Of this 5.86 miles, Seeun derabad to Hyderabad, are of mixed (5' 6" and 3'33") gauge
Hyderabad branch— Husain Sagar to Hydorabad Mineral branch— Dornakal to Singaryni Coal-fields.	:	:		9-10-74 1-1-88 ~	3·57 16·26	3° 57 16°26		
1	Тот	A T.					830-18	

Details of construction-

Permanent-way.—The first 47 miles from Wadi are laid with 75-lb. bull-headed steel rails, 42 miles being on east iron pot sleepers and the remaining 5 miles on east iron chairs and jarrah sleepers. The next 9 miles are laid with 85-lb. flat-footed steel rails on steel sleepers and the following 56 miles with 85-lb. flat-footed rails on jarrah sleepers. The section between Begampet and mile 260-9½ is laid with 85-lb. flat-footed steel mile on steel sleepers, with the exception of the mixed (5' 6" and 3' 3\{\cdot\}") gauge line, from Secunderabad to Hyderabad, which has wooden sleepers under the same section of rail. Miles 260-9½ to 306 are laid with 66\{\chi\}\$ lbs. rails and steel peaped sleepers, and miles 306 to the British frontier, with jarrah sleepers under the same section of rail.

Ballast.—The line is ballasted throughout with stone and sand.

Fencing.—The line is fenced from Wadi to Secunderabad, but from Secunderabad to the frontier only the station yards are fenced.

Curves .- The sharpest curve is of 1,300 feet radius.

Gradients.—The ruling gradient is 1 in 100 on the Hyderabad-British Frontier section and 1 in 150 on the Wadi-Husain Sagar section.

NIZAM'S GUARANTEED STATE RAILWAYS SYSTEM-contd.

Nisam's Gnaranteed State railway (5' 6" gauge) - contd.

Contract and agreement-

- Contract, dated the 27th December 1883, between the Government of His Exalted Highness the Nizam of Hyderobad and the Nizam's Guaranteed State Railways Company, Limited, as to the acquisition, management, maintenance and working of the line from Wadi to Hyderabad and Secunderabad, the construction, etc., of certain 5'6' gauge extensions and the preferential right to construct all new railways in His Exalted Highness the Nizam's territories.
- Agreement, dated the 16th March 1997, (supplemental to the contract of 1983), between the Government of His Exalted Highness the Nizam of Hyderabad and the Nizam's Guaranteed State Railways Company, Limited, as to the construction, management, maintenance and working, by the Company, of the Hyderabad-Godavari Valley railway.
- Letter No. 257, dated the 7th March 1903, from the Government of His Exalted Highness to the address of the Railways Company as to rates and fares.

Main provisions of contract and agreement-

- [Norm.—Under this head, the expression "Government" means the Government of His Exalted Highness the Nizam of Hydersbad, except where otherwise stated.]
- (i) Land.—Provided by the Government free of cost to the Company.
- (ii) Government aid.—Guarantee of interest in sterling, at 5 per cent per annum on the Company's share (£2,000,000) and debenture (£1,500,000) capital for 20 years, from the date on which such capital is paid up. The guarantee in the case of the share capital ceased on the 25th June 1904, but the guarantee in respect of debenture capital, ceased or ceases, on various dates ranging from 30th June 1904 to 31st January 1928. The Government has accorded sanction to the issues of further debentures, amounting in all to £1,000,000 without any guarantee. Up to date the Government has agreed to take £700,000 of these debentures, of which £500,000 have been issued and loan received against issue of a further £100,000.
- (iii) Distribution of profits.—During the period of the guarantee the repayment of the guaranteed interest for each half-year, and thereafter interest for each year, at the rate of 5 per cent on the share and debenture capital, is to be the first charge against the net earnings of such half-year or year. Of any residue, either before or after the cessation of the guarantee, one half is to be applied in payment of guaranteed interest not previously recouped and any other sums owing by the Company to the Government, and the other half is to be retained by the Company. When the Government has been reimbursed, all sums paid under the guarantee, together with simple interest thereon at 5 per cent per annum, the Company is to be entitled to the whole of the net carnings.
- (iv) Rates and farcs.—Not to exceed those from time to time prevailing on the Great Indian Peninsula railway, unless otherwise agreed between the Government and the Company. [By letter No. 257, dated the 7th March 1903, from the Secretary to the Government in the Financial Department to the Agent and Manager the provisions in this respect of the agreement of 1883 have been modified so as to permit the Company to levy such rates and farcs as are not in excess of those which obtained on the Great Indian Peninsula railway at the date of that agreement.]
- (v) Special obligations as to the conveyance of .-
 - (a) Mails and Post Office servants of the Government of His Exalted Highness and the Government of India.—To be conveyed free of charge.
 - (b) Troops, officials, and Government stores.—Troops and officials of the Government of His Exalted Highness and the Government of India to be conveyed at special rates; and stores at the lowest rates ordinarily chargeable.
 - (c) Bullion and coin.—At special rates.
- (vi) Power of the Government to determine agreement.—In the event of any breach by the Company of any of the provisions of the agreement, the Government may give the Company in London six months notice of its intention to determine the agreement; and unless the breach shall be remedied within the 6 months, the Government may determine the agreement and assume possession of the railway, paying to the Company in sterling so much of the capital as shall be unredeemed.

The Government may also terminate the agreement and purchase the railway, rolling-stock, etc., on the lat January 1934, or lat January 1954, by giving 12 months notice. If the railway is thus acquired the Government is to pay to the Company, in sterling the amount of the unredeemed capital, plus a bonus of 25 per cent.

At the end of the full term of 99 years, if the agreement continues so long, the land in the possession of the Company, with the railway, buildings, works, and fixed machinery, will rever to the Government free from all debts and charges, but the rolling-stock, plant, movable machinery and stores must be purchased by the Government at their fair value.

NIZAM'S GUARANTEED STATE RAILWAYS SYSTEM-conti

Nizam's Guaranteed State railway (5' 6" gauge) -concld.

Main provisions of contract and agreement-concld.

- (vii) Power of the Company to surrender agreement .- Nil.
- (viii) Term of agreement [if not determined under (vi) or (vii)] -99 years from the date on which the extension from Hyderabad towards Bezwada was opened throughout, vis., 10th February 1889.

Statistics of working (Those for the periods prior to 1885 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

Year. open end eac year		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net carnings.	Percentage of net corn- ings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.	
	1		2	3	4	5	6	7	. 8
			Miles.	Re.	Rs.	Bs.		Ra.	
1885			. 117.10	2,47,70,828	11,13,950	4,87,024	1.97	178	56-9
886			205:37	2.89.19.499	13,81,077	6,94,524	2:40	143	40.5
1887	·	:	205.87	8,27,45,397	15,48,891	5 59 005	1.69	143	49.7
1888	•	:	305.71	3,54,89,073	17,76,075	5,52,905 7,57,467			64.3
1889	•	•	329 20	8,59,09,620	22,57,463	1,01,901	2.13	118	57.8
1890	•		329 20		05.07.000	7,69,208	2.14	129	65.8
	•	•		3,76,96,721	25,07,268	10,39,590	2.76	145	58-5-
1891			. 329.20	3.94,81,752	27,76,437	12,57,860	3.19	151	54.7
1892			. 329.20	3,95,48,395	27.80.642	13,24,959	3.35	161	52.3
898			2 830 13	4.01,96,909	30,61,605	14,36,451	3.57	177	
1894			. 880.13	4.02,33,826	92,56,885	16,22,028	4.03		58.0
895	•		. 330.18	4.06.43.818	32,15,541			188	50.3
	•	•	.1	1		15,77,149	3.89	185	59.9
1896 1897	•	•	330 13	4,08,24,737	33,03,522	17,28,196	4.23	191	47-6
1007	•	•	380 13	4,09,60,944	36,10,354	19,38,769	4.73	208	46:86
898		•		4,10,54,449	39,07,612	22,74,580	5.21	225	41.7
899	•	•	. 830.18	4,15,68,731	41,10,201	25,01,046	6.02	237	39.1
900	•	•	330 13	4,17,49,124	49,12,056	28,41,985	6.81	283	42.1
901			. 380-13	4,24,30,543	40,77,927	26,48,120	6:24	286	85:06
902			. 330.13	4.28.89.527	44,06,494	26,82,533	6.25	254	39.1
908			380 13	4,30,13,668	43,18,630	25,38,386	5.90	249	41.29
904			380.13	4.32,66,412	43,32,440	27,90,690	6.45	250	61.5
905			. 830-13	4,85,86,043	+2,78,161	28,49,703	6.24		35.50
	•			1		20,000,000	0.04	247	33 31
1906	•		. 330.13	4,36,45,097	44,84,105	27.98.897	6.41	259	87.58
907			330.13	4,49,81,824	49,85,681	33,02,905	7.35	288	93·74
1908			330.13	4,56,07,808	46,99,296	30,15,029	6.61		
909			380 13	4.66,62,100	46,92,067	26,43,417	5.67	255	38-96
910		-	. 880-13	4,72,19,094	53,14,905	28,46,520	6:03	278	43.66
911	•		.1 830-18	4.63,37,518	57,07,861			309	46:44
912	•	•	3:0:13	4,84,96,844		27,13,285	5'86	332	52.46
	•	•		1	57,76,606	31,96,185	6.59	~ 837	44.6
st gr.	of 1913	3	330:13	4,87,78,182	16,58,727	7,42,254	1 52	886	55.25
913-14				5,09,58,827	66.79,080	33,03,904	6'48	369	50.84
1914-15			. 830.13	5,17,23,846	58,68,725	80,17,075	5.83	842	48.24
915-16			33018	5,80,63,892	64,71,470	30,00,409	5.65	377	58'64
916-17			. 3 0 13	8,3C,31,29%	66,04,721	38,19,720	7-20	385	
917-18			. 330.13	5,34,23,948	72,25,071	33,59,052	6.29		48.17
					,,	00,00,024	; • • • • • • • • • • • • • • • • • • •	420	53 51

ezwada Extension railway (5' 6" gauge)-

This line, which extends from the frontier of His Exalted Highness the Nizam's dominions to Bezwads was constructed for the Government of India, by the Nizam's Guaranteed State Railways Company and is being worked as a part of its own system.

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.	
1	2	8	4	Remarks,
Hyderabad frontier to Bezwada .	10-2-89	21.47	*21:17	*Of this 122 miles, Bezwada Joint station to the outer signal, are maintained by the Madras and Southern Mahratte Railway.

Details of construction -

Permanent-way .- The line is laid with 661-lb. flat-footed steel rails on jurral sleepers.

Ballast.—The line is inllasted throughout with stone and sand.

Fencing.—The line is funced at stations only.

Curves.—There are no curves with a radius of less than 1,900 feet.

Gradients.-The ruling gradient is 1 in 100.

54RAR

NI ZAM'S GUARANTEED STATE RAILWAYS SYSTEM-conid.

Bezwada Extension railway (5' 6" gauge)-concld.

Agreements-

Dated the 6th April 1909, between the Railway Board, acting on behalf of the Secretary of State and the Nisam's Guaranteed State Railways Company, as to the maintenance, management and working, by the Company, of the Bezwada Extension railway.

Dated the 14th Ootober 1915, (supplemental to the agreement of 1909), between the Secretary of State and the Nizam's Guaranteed State Railways Company, modifying the agreement of 1909 as regards dates for making up Accounts.

Main provisions of agreement-

- (i) Land .- Provided by the Government at the cost of capital.
- (ii) Government aid.—The line is the property of the Government, who provide all further funds chargeable to the capital account, and it is managed, maintained, stocked and worked by the Company as if it were part of the Company's 5' 6" gauge system.
- the Nizam's Guaranteed State Tailways Company for the same of the Company's 5' 6" gauge system to its gross earnings, as published in the Company's Revenue Accounts for the same half-year, plus 5 per cent of the gross earnings of the Bezwada Extension railway for the use of rolling-stock. But in addition thereto, any extraordinary maintenance charges due to causes other than ordinary wear and tear shall be extraordinary charges shall be excluded in working out the percentage of ordinary maintenance charges payable by the Bezwada Extension railway. The balance is paid over to the Government
- (v) Rates and fares.—

 (vi) Special obligations as to the conveyance of.—

 (a) Mails, troops, police, high Government officials and Government stores.—

 (b) Government bullion and coin, and the persons in charge thereof.—

 To be the same as from time to time obtain on the Company's for gauge system.

of India as the net earnings of the Bezwada Extension railway.

- (vii) Power of the Government to determine agreement.—

 Siii) Power of the Comman to surrender government.—

 Ist July in any year, on 6 months' notice of the other party to the other Any.
- (viii) Power of the Company to surrender agreement.—

 Sieven by either party to the other. Any
 breach of the terms of the contract may lead, ipso facto, to its determination.
- (ix) Term of agreement. Until terminated under (vii) and (viii).

Statistics of working (Those for the periods prior to 1901 will be found in Appendix 38 to the Railway Administration Report for 1907.) -

Year.	Mileage open at end of each year.	I otal capital outlay, is cluding suspense, to ond of each year, i.e. outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net earnings.	Percentage of net earn- ings on total capital outlay given in column (3).	Interest.	Gain or loss to the State pertaining to each year,	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3 ,	4	5	6	7	8	9	10
1901 1902 1903 1904	Miles. 20°58 20°58 20°58 20°58 20°58	Rs. 11.51,678 11.60,425 11.77,047 11.75,731 11,78,645	Rs, 2,77,177 2,89,663 3,07,113 3,20,656 3,47,490	Rs. 1,56,929 1,40,329 1,54,222 1,78,955 2,04,239	18:63 12:09 18:10 15:22 17:33	Rs. 35,509 46,875 46,617 46,898 47,046	Rs. +1,21,420 + 93,954 +1,07,605 +1,92,057 +1,57,193	Rs. 248 259 275 287 311	43:88 51:55 49:78 44:19 41:22
1906 1907 1908 1909	20*58 20*58 20*58 20*58 20*58	11,81,020 11,81,952 11,88,796 12,06,026 12,01,940	3,49,206 3,15,376 3,98,623 3,12,154 3,42,614	1,91,737 1,83,883 1,91,624 1,52,554 1,58,254	16·23 15·56 16·19 12·65 18·17	47,182 35,691 40,277 39,884 40,182	+1,44,555 +1,48,192 +1,51,347 +1,12,670 +1,18,072	313 282 316 280 320	45:09 41:69 43:41 51:28 58:81
1911 . 1912 .	20·58 20·58	12,19,123 12,22,363	3,54,265 3,84,244	1,40,815 1,84,265	11·55 15·07	41,560 41,771	+ 99,255 + 1,42,494	381 359	60·25 52·04
lst qr. of 1918.	20-58	12,81,870	1,05,502	39,771	3·2 3	10,432	+ 29,889	894	62:80
1918-14 1914-15 1915-16 1916-17	20:58 20:58 20:58 20:58 20:58 21:47	12,88,842 12,42,759 12,46,788 12,49,073 12,49,143	4,10,238 4 51,983 4,77,021 4,89,045 £,22,946	1,73,986 2,00,784 1,89,111 2,49,856 3,01,519	14·10 16·15 15·17 20·00 28·88	48,138 48,831 48,925 41,137 43,882	+ 1,30,848 + 1,57,408 + 1,45,886 + 2,08,719 + 2,58,137	383 422 446 457 495	57·59 55·59 60·36 48·91 42·34

NIZAM'S GUARANTEED STATE RAILWAYS SYSTEM -- cont.

Hingoli Branch railway (3' 84" gauge)-

Progress in opening-

	Section of railway.											Date of opening.	Miles.	Total.					
						1											2	8	4
Purns to Hingoli					•	•	•		•	•	•	•	•	•	•	•	15-5-12	50-81	50-91

Details of construction-

Permanent-way. - The permanent-way consists of second hand 661 lb. flat-footed steel rails taken out of the 5' 6" gauge system and new steel trough sleepers.

Ballast, - The ballast used is moorum, except in some cuttings where stone ballast has been laid.

Fencing. - Fencing is provided only round station yards and a small length on either side of second class level crossings.

Curves. - The sharpest curve is of 1.910 feet radius.

Gradients.-The ruling gradient is 1 in 183.

Agreement-

Dated the 1st March 1910, between the Government of His Exalted Highness the Nisam of Hyderabad and the Nisam's Guaranteed State Railways Company, Limited, as to the maintenance, management and working of the Hingoli branch, by the Company, as part of the Hyderabad-Godavari Valley railway.

Main provisions of agreement-

(Note. -Under this head the expression "Government" means the G vernment of His Exulted Highness the Nizam of Hyderabad.

- (i) Land .- Provided by the Government free of cost.
- (ii) Government aid .- The line is the property of the Government who provide all funds chargeable to the capital account.
- The Nizam's Guaranteed State Railways Company works the Branch railway for the same proportion of its gross earnings as the aggregate gross earnings of that system, plus 5 per cent of the gross earnings of the Branch for use of rolling-stock. The balance of the gross earnings of the Branch after The Nizam's Guaranteed State Railways Company works the (iii) Terms of working .-(iv) Distribution of profits .-
- making the said deduction is paid to the Government as the net earnings of the Branch. In the case of accident or damage caused by extraordinary casualty, e.g., by floods, storms, etc., charges for repairs are made to the Branch rullway, such charges being eliminated from the aggregate working expenses before the percentage of working expenses referred to above is arrived at.
- A revised agreement is under consideration, under the terms of which the Branch will be worked for actual cost plus 10 per cent. of the gross earnings for hire of rolling-stock, until Branch is equipped with its own rolling-stock.]
 - (v) Rates and fares.—The same rates and fares as are in force on the Hyderabad-Godavari Valley railway.
 - (vi) Special obligations as to the conveyance of .-Services for these are performed on the same conditions and at the same rates as may be in (a) Mails. force on the Hyderabad-Godavari Valley railway. Troops, police, and high Government officials.
- (vii) Power of the Government to determine agree-ment.—

 The agreement is terminable by either party on the 30th June or the 31st December in any year after the line is opened throughout on 12
- (viii) Power of the Company to determine agreement.—) months' previous notice in writing.
- (ix) Power of the Company to surrender agreement. Nil.
- (x) Term of agreement .- Nil.

NIZAM'S GUARANTEED STATE RAILWAYS SYSTEM -contd.

Hingoli Brauch railway (3' 3%" gauge) -concld.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital ontlay, including suspense to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly ander construction.	Gross earnings.	Not earnings.	Percentage of net earnings on total capital outlay given in column (8).	Earnings per mile per week.	Proportion of expenses to carnings.
1 .	2	8	4	5	6	7	8
1912 .	Miles. 50°31	Rs. 30,18,783	Ra. 6+,758	Rs. 25,722	0-85	Rs. 39	60:28
1st qr. of 1911	50-81	80,48,772	28,529	9,993	0.38	44	64-97
1918-14	50 81	31,28,109	1,42,367	64,511	2.07	54	54-69
1914-15 · 1915-16 · 1916-17 · 1917-18 ·	. 50·81 . 50·31 . 50·31 . 50·31	31,86,279 31,92,238 31,92,924 32,06,202	1,17,828 1,88,243 1,21,594 1,96,635	46,104 58,629 58,670 15,629	1°44 1°82 1°84 0°49	45 51 46 52	60·87 *56·45 51·75 88·56

Hyderabad-Godavari Valley railway (3' 3%" gauge)-

Progress in opening-

	Sect	ions	of 1	railw	ay.	 			Date of opening.	Miles.	Total.	Remarks.
	-		1			 			2	.8	4	5
Manmad to Jaina Jaina to Sailu Sailu to Purbhasi Purbhani to Nanded Nanded to Sivungaon Sivungaon to Secunderahad Secunderahad to Hyderaha			: : : : : : : : : : : : : : : : : : : :		:	Ton		:	21-10-99 7-12-99 25-4-00 9-10-00 23-8-00 25-4-00 16-5-01	109:28 41:79 26:40 36:60 17:61 150:59 -5:86	391-13	*Laid on mixed (5' 6 and 3' 3]*
Purna Junction station ys	rd				٠		•	•	15-5-12.	0:38	0:38	gange.

Details of construction-

Permanent-way.—The permanent-way consists of 50-lb. flat-footed steel rails on steel pea-pod sleepers between miles 0 and \$\frac{1}{167}, \$\frac{2}{167},\$ and \$384-27, except within station limits where wooden sleepers are used, and also on second-band 5' 6" gauge steel sleepers converted into 3' 3\frac{3}{3}" gauge, between miles \$\frac{2}{167}\times and also on second-band 5' 6" gauge steel sleepers converted into 3' 3\frac{3}{3}" gauge, between miles \$\frac{2}{167}\times and also on second-band 5' 6" gauge steel sleepers converted into 3' 3\frac{3}{3}" gauge, between miles \$\frac{2}{167}\times and also on second-band 5' 6" gauge steel sleepers converted into 3' 3\frac{3}{3}" gauge, between

Ballast.—The line is ballasted throughout with stone, sand and moorum.

Fencing.—The line is fenced from mile 3771 to 381 and between miles 249 and 250, and at all stations.

Curves .- The sharpest curve is of 1,433 feet radius.

Gradients .- The ruling gradient is 1 in 133.3.

Agreement-

Dated the 16th March 1897 (supplemental to the contract of 1883) between the Government of His Realted Highness the Nizam of Hyderabad and the Nizam's Guaranized State Railways Company, Limited, as to the construction, management, maintenance and working, by the Company, of the Hyderabad-Godavari Valley railway.

Main provisions of agreement-

- (i) Land .- Provided by the Government of His Exalted Highness free of cost to the Company.
- (ii) Government aid.—Guarantee in sterling, for 20 years from the date on which the line was completed and opened for traffic throughout (9th October 1900), of the interest payable on the debenture capital (not exceeding £2,500,000) raised for the purposes of the contract, together with an additional one per cent for a Sinking Fund. (The amount of capital raised to the present time is £2,150,000, and the rate of interest payable on it is 3½ per cent.) The guarantee terminates on 8th October 1920.

NIZAM'S GUARANTEED STATE RAILWAYS SYSTEM -contd. Hyderabad-Godavari Valley railway (3' 3# gauge) -concid.

Main provisions of agreement-concld.

- (iii) Distribution of profits.—During the period of the guarantee the repayment of the guaranteed interest for each half-year, and thereafter the interest payable on the debenture capital for each year, is to be the first charge against the net earnings for such half-year or year. Any surplus either before or after the cessation of the guarantee, is to be divided equally between the Government of His Exalted Highness, and the Company.
- (iv) Rates and fares .- Not to be in excess of those prevailing on the Nizam's Guaranteed State railway unless otherwise agreed.
- (v) Special obligations as to the conveyance of .-

 - (a) Mails.—
 (b) Troops, officials and Government stores.—

- As noted under the Nizam's Guaran-teed State railway.
- (vi) Power of the Government of His Exalted Highness to determine agreement.—As noted under the Nizam's Guaranteed State railway, with the exception that, in the event of the line being purchased in 1934 or 1954, the price to be paid is to be the amount of the unredeemed capital only, without the bonus of 25 per cent in addition.
- (vii) Power of the Company to surrender agreement .- Nil.
- (viii) Term of agreement [if not determined under (vi) or (vii)].—The remainder of the term of the contract relating to the Nizam's Guaranteed State railway which was unexpired at the date of the present

Statistics of working-

	Year.								Mileage open at end of each year.	Total capital outlay, includ- ing suspense to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.	
					1					2	3	4	5	6	7	8
1899 1900	:	:	:	:	:	:	:	:	:	Miles. 154.23 385.23	Ra. 2,00,21,971 2,31,94,517	Rs. 63,381 10,63,023	Rs. 36,877 4,20,826	0·18 1·81	Rs. 48 70	41.82 60.11
1901 1902 1903 1904 1905	:	:	:	:	:	:	:	:	: : :	391.42 391.42 391.42 391.13 391.13	2,46,58,981 2,57,75,220 2,62,07,841 2,64,85,096 2,68,15,349	20,10,033 22,88,043 22,14,752 22,11,781 29,64,122	9,23,300 9,67,892 8,86,291 7,74,804 13,29,009	8·74 3·76 8·38 2·93 4·96	99 112 109 109 146	54.07 57.70 59.98 64.97 55.16
1906 1907 1908 1909 1910	:	:	:	:	:	:	:	:	:	391 13 391 13 391 18 391 18 391 13	2,69,36,746 2,71,85,309 2,73,97,247 2,75,50,030 2,79,30,418	30,32,503 32,55,067 32,41,828 32,54,724 86,55,833	14,21,747 17,74,126 15,61,740 14,02,129 18,05,391	5:28 6:53 5:70 5:09 6:46	149 160 189 160 180	58·12 45·50 51·82 56·98 50·62
1911 1912 1st qr 1913-14	of 191	8	•	:	:	:	:	:	:	391 13 391 13 391 13 391 13	2,91,68,053 2,96,12,624 2,98,32,787 3,04,91,995	84,97,806 43,60,567 12,79,019 43,08,162	13,12,510 20,26,995 4,87,877 20,88,400	4·50 6·85 1·64 6·85	179 214 252 212	62:48 53:52 61:86 51:63
1914-15 1915-16 1916-15 1917-1	:	:	:	:	:	:	:	:	:	391·13 391·13 391·13	31 9,21,083 3,19,95,320 3,22,84,005 8,22,46,491	41,16,169 44,81,233 39,82,278 39,71,902	17,40,623 20,96,695 18,75,441 15,63,991	5-45 6:55 8:81 4:85	202 220 193 195	57.71 58-21 52-27 60-62

Secun derabad-Gadwal railway (3' 31" gauge) -

The construction of this line, from funds to be provided by His Exalted Highness the Nizam's Government was sanctioned by the Secretary of State in his Despatch No. 26 Railway, dated the 27th February 1914.

NIZAM'S GUARANTEED STATE RAILWAYS SYSTEM-concld.

Secunderabad-Gadwal railway (3' 83" gauge) -concld.

Progress in opening-

Sections o	f railway.			Date of opening.	Miles,	Total.	Grand total
1				 2	3	4	5
Secunderabad to Timmapur Timmapur to Chatanpali Chatanpalli to Balanagar Balanagar to Gullapali Gullapalli to Jadoharla Jadoharla to Mahbubnagar Mahbubnagar to Daverkudra Daverkudra to Karumuti Lavar to Kurumuti Kurumurti to Wanaparti Road	 		 	 1-2-16 20-2-16 6-3-16 1-4-16 20-4-16 15-5-16 15-11-16 1-1-17 15-2-17	27-52 9-19 8-39 9-45 4-68 10-97 15-17 9-74 8-19	108:30	
UNDER CONSTRUCTION OR SANCTIO	NED FOR	CONSTRUCTI	0и—	'	1		1
Wana parti Road to Gadwal (sanct	ioned on a	7th Februar	y 1914)	 	18.45	13'45	
	•	GRAND TO	TAL	 			116-75

Details of construction-

Permanent-way.—The permanent-way consists of 661-lb. flat-footed rails laid on steel sleepers.

Ballast.-Cuttings are being fully ballasted and banks are being moorumed throughout.

Fencing. - The line is being fenced in the vicinity of the principal towns and most important stations.

Curves .- The sharpest curve is of 1,432.5 feet radius.

Gradients.—The ruling gradient is 1 in 138.3.

A	OT	AC	m	A	n	t

The line has been constructed, and is being worked by the Nizam's Guaranteed State Railways Company under the terms of an agreement which is under consideration.

Statistics of working-

Main provisions of agreement .-

Year.	Mileage open at end of each year.	Total capital outlay, including suspouse to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net carnings.	Percentage of net earnings on total cupital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	. 8
1915-16	Miles. 46'00	Rs. 67,56,000	Rs. Information	Rs. not available		Re.	
1916-17	103-30	84,42,687	98,360	11,348		27	111-54
1917-18	108:50	92,68,479	3,80,572	52,601	0.57	71	96-18

Lines comprised in the system.—The North Western railway system is made up of—

	Open line.	Under con- struction or sanctioned for construction.	Total.
	Miles.	Miles.	Miles.
(a) North Western railway (5' 6" gauge)	3,690· 27	•••	3,690.27
(b) Amritsar-Patti railway (5' 6" gauge)	54 26	٠	54.26
(c) Hoshiarpur Doab Branch railways (5' 6" gauge)—			
Juliundur-Mukerian section	44.81		44.81
Phagwara-Rahon section	45.21		45:21
(d) Jammu and Kashmir (Native State section) (5' 6" gauge)	16.01	٠	16.01
(e) Khanpur-Chachran railway (5' 6" gauge)	22.02	•••	22.02
(f) Ludhiana-Dhuri-Jakhal railway (5' 8" gauge)	78.65		78.65
(g) Mandra-Bhaun railway (5' 6" gauge)	46.38	•••	46.88
(h) Bajpura-Bhatinda rajiway (5' 6" gauge)	108.04	•••	108:04
(i) Sialkot-Narowal railway (5' 6" gauge)	38.16	•••	38.16
(i) Southern Punjab railway (Main line) (5' 6" gauge)	_425.9 2		425.92
(k) Southern Punjab railway (Jullundur Doab Extension) (5' 6" gang	e) 13 0·19		130.10
 Southern Punjab railway (Ludhiana Extension) (5' 6" gauge) 	152.04	•••	152.04
(m) Southern Punjab radway (Sutlej Valley Extension) (5' 6" gauge)	(dismantle	d)	
(n) Jacobabad-Kashmor railway (2' 6" gauge)	76.70	***	76.70
(o) Kalka-Simla railway (2' 6"gauge)	59· 9 2	•••	59.92
(p) Kohat-Thal railway (2' 6" gauge)	61.75	•••	61.75
(q) Nowshera-Durgni railway (2' 6" gauge)	10.10	•••	40.40
(r) Trans Indus (Kalabagh-Bannu) railway 2'0" gauge)	135'38	***	185:39
(*) Larkhana-Jacobabad (Sind) Light railway (2' 0" gauge)		75.45	75.45
Running powers-	·5,22d·11	75'45	5,301.56
Home line over foreign line:— Ghaziabed to Delhi, East Indian railway, for passenger and goods t	rains	· · · ·	13.00
Pareign line acce home line:— Onth and Robilkhand railway, Meerut City to Meerut Cantonmen East Indian railway, Jind City to Jind Junction, for pa-senger and	, for passeng goods trains	er trains only	2.75 2.95
		Total .	
		total .	5.70

North Western railway (5' 6" gauge)-

The line owned and worked by the old Sind, Punjab and Delhi Guaranteed Ruilway Company was taken over by the State from the 1st January 1886, and amalgamated with the Punjab Northern, the Indus Valley, the Eastern section Sind-Sagar, and the Southern section Sind-Pishin State railways, to be worked as an undertaking under the name of the North Western railway.

Date of registration of the old Guaranteed Company-1855.

Progress in opening --

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	. Remarks.
1	2	3 ~	4	5	6
OMMERCIAL SECTION-		(
Main Line-	18-4-67	27:33			į.
Ghaziabad to Meerut City . Meerut City to Ambala Cantonment .	1.1-69	121 55			
Ambala Cantonment to Ludhians	12-10-69	70:66			
	14-19-70	8:28			
Ludhiana to Phillaur Phillaur to Jullundur Cantonment	1.4.70	26.13			
Jullandar Cantonment to Boas	15-11-69	25:53			1
Bors to Amritant	1-11-67	26:20			
	10-4-63	32:33	1		1
Amritsar to Lahore Lahore to Jhelum	6-10-78	*103.13			*This length was constructe
Labore to Jhelum	†	76:38	1		on the 3' 3;" gauge previou
Jhelum to Rawalpindi Rawalpindi to mile 560 63 (between Law-		105	!		to September 1873 but we
rencepur and Campbellpur Cantonment).	1-1-81	45:38		1	converted to the 5' 6" gang
rendepur and Campoenpur Cantonadore.	1-4-99	11:50	į	i	on the 6th October 1878.
Mile 560 63 to Rumian Rumian to Attock Bridge		5.25	1		1
Attock Bridge to Khairabad	31-5-83	2:38	1		The line was opened by see
	1-5-82	41.25			tions on the 5'6" gauge, usin
Khairabad to Peshawar City Peshawar City to Peshawar Cantonment	1.1.83	2.65			temporary diversions near De
	21-4-65	177:25	1	ì	meli-thus Jhelum to Ratia
Lahore to Khanewai	1-1-09	56:42		į.	1st January 1880 (15 miles
Khanewai to Lodnrau	1-7-78	224.58		,	and Ratial to Rawalpindi, 1s
Lodhran to Nara Canal Bridge	0-0-89	1.00	i	1	October 1880 (56 miles), Th
Nara Canal Bridge to Rohri	15-11-96	178.09	1	1	diversions were abolished of
Robri to Rahoki	28-3-10	6.25	İ	1	8th May 1882; and the cor
	25-5-00	5.29	i	1	plete 1 50 graded through lin
Hyderabad to Ketri	13-5-61	105.04	į	1	between Jhelum and Rawa
Kotri to Karachi City	16-6-89	3.07	•		pindi (70'50 miles) was esta
Karachi City to Kiamari, including Napier	10.0.00		1,382-90	1	lished. But again in 1888, an
Mole.	•		1,005 00	i .	in subsequent years up t
Branches -	1	i			date, various alignments i
Harelian branch -	7-11-13	34.64	1	1	connection with the improve
Sarai Kala to Havelian	1-11-13	01//	34.64	ļ	ments of grades to 1/100 hav
Tawi branch (British section)— Wazirabad to Sialkot	1-1-84	26:40	.7809		been opened and the presen
Sialkot to the frontier of Kashmir State	15-8-90	9.08		١,	length of line on the 31s
Maisor to the frontier of Mashmir State .	13.9.80		35.49	,	March 1897 is-Jhelum t
			30 93		Rawalpindi 76 88 miles.
;					
<i>f</i> : : : : : : : : : : : : : : : : : : :					1
Carried over			1,453.02		
Carried over .	***	•••	.,200 02		ŀ

North Western railway (5' 6" gauge)—contd. Progress in opening—contd.

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	Remarks.
1	2	3	4	Б	6
Brought forward			1,468.02		
Wanirabad-Khanewal branch-	1	1			
Wazirabad to Hafizabad	15-8-95	37.37			
Hafizabad to Sangla Hill	1-1-96	81.45 27.21		1	
Sangla Hill to Lyallpur	15-2-96 22-6-99	49:00			
Toba Tek Singh to Khanewal	16-4-90	55.53			
	-		200.56	1 '	
Phulji branch — Phulji to Puranadera	1-6-82	2:57			
Phulji branch extension	31-3-02	U'34			
-	-		2.91		
Sukkur Bandar branch— Sukkur Main to Sukkur Bandar	1-10-78	1.2		1	
	1-10-10		1.2	1 1	
Kotri-Rohri (vid Ruk) branch -	97 7 90	261			
Rohri to Sukkur Sukkur to Radhan vid Ruk	27-3-89 1-10-78	79:31			
Radhan to Laki	27-10-78	70 57		į	
Laki to Kotri	8-10-78	75.48		1	
Raewind Bhatinda branch -			228.00		
Racwind to Kasur	15-4-83 10-6-83	16.70		1	
Kasur to Ganda Singhwala		7·00 2·75	•	1	
Ganda Singhwala to Hussainiwala	8-5-87	2.75		1	
Hussainiwala to Ferozenere City	1-10-92	2.00		! !	
Ferozepore City to Ferozepore Canton -	1-10-88	2.00		1	
Ferozopore Cantenment to Bhatinda	15-6-99	55.23		1	
Pathankot branch-			88:43		
Amritsar to Dinanagar	1-1-84	51.22			
Dinamagar to Pathankot	8-6-84	15.48		1 1	
Hoshiarpur branch -	*44.0	23.28	66.70	1	
Jullundur City to Hoshiarpur	16-6-13	40 40	23.28		
Jech Doab line-				! !	
Mulukwal to Sargodha	1.1.03	46.25		1	
Sargodha to Shorkot Road	14-5-06	102.56	148:81	1	
Shahdara to Saugla	10-4-07	54.76			
Lodbran-Khanewal chord (vid Sher Shah)-			51.76	1	
Khanewal to Multan Cantonment	24-4-65	30.50		1	
Multan Cantonment to Muzaffarabad . Muzaffarabad to Lodhran	21-8-70 1-7-78	6·89 47·61		1	
Muzaffarabad to Lodhran	1-1-10	41.01	85:00	1	
Shorket Road to Jaranwala	2-5-11	87:70	85 00		
Jaranwala to Chichoki Mallian	18-11-09	48.10		1	
Jakhal Hissar branch- Jakhal to Hissar	1 11 10	50.32	135·80 50·22		
Juking to Hissar	1-11-13	30 44	30 23	-	
TOTAL OPEN MILEAGE (COMMERCIAL SECTION)				2,539.01	
FRONTIER SECTION (MILITARY)-					
Sind-Sagar line -					
Main line -				ĺ	*D. (
Lala Musa to Baha-ud-din	†1-1-80 †1-2-80	29°61 10°52			Date of opening of the original 8' 3% gauge
Hariah to Malakwal	†10-4-80	5 9 9		-	HIRO, SHDSounontly con-
Malukwal to Bhakkar (vid Kundian). Bhakkar to Chenab West Bank.	15-8-87	172.20			verted to, and opened on, the 5' 6" gauge, Lala
Bhakkar to Chenab West Bank	22-1-87	119.71 2.49			Musa to Malakwal, on
Chenab East Bank to Sher Shah	1-2-90 1-1-89	2.39)	10-2-86.
Branches and sections -	, 100		342.91	i	
Golra-Basal section-			3101	ļ	
Golra Junction to Basal Junction	1-1-81	46.75			
Kohat section -			46.75	i	ĺ
Jand to Khushalgarh	16-4-81	7.00			
Khushalgarh to Kohat	125-5-03	32.46	39:46		This is the date of
			30.0	1	opening of the original 2'6" gauge line which
Bhera branch Malakwal to Misai	§10-4-80	8:69		i	2'6" gauge line which
Miani to Bhera	§2-2-82	9.11			was subsequently con-
	3-202		17:80		on, the 5' 6" gauge on 5-1-08.
Bhaganwala branch-	01.00	10.01		i	on 5-1-08.
Haranpur to Bhaganwala	31-8-95	10.84	10.84		SDates of opening of original 3'3#" gauge
Warcha quarry branch—Gunjyal to Warcha			2002		lines, subsequently
Gunjyal to Wareha.	22-12-17	8:32	8:32		converted to, and open-
			6 32		lines, subsequently converted to, and open- ed on, the 5' 6" gauge, Mulakwal to Bhers, on 15-3-87.
Carried over			166 08	2,589.01	1

North Western railway (5' 6" gauge)—contd. Progress in opening—concld.

Sections of railway.					•			Date of opening.	Miles.	Total.	Grand total.	Remarks.
	1							2	3	4	5	,6
FRONTIER SECTION (MILITAI	ır)—	Bre	o ngh i	for	ward	l				466-08	2,539-01	
Dandot branch- Chalisa Junction to Kh	nwwa	1+	mina						6-36	1		
Khewra to Dandot .	·			٠.	:	:	:	}*1·1·88	2.15		1	*Date of opening of the original 3' 3%" gauge line, subsequently con-
Kundian-Campbellpur sec	lion-	_					1			8.21	1 1	original 8' 34" gauge
Kundian to Daud Khel								15-3-92	30.34		1 1	verted to, and opened on, the 5' 6" gauge Chalisa Junction to
Daud Khel to Jand		•				•		1-4-99	54 65 16 41		1 1	on, the 5'6" gange
Jand to Basal Basal to Campbellpur	•	•	•	•	•	•	:	16-4-81 1-4-99	18.42		1	Khewra salt mines or
	•	•	•	•	•	•		••••		119.85	1 1	Khewra salt mines, or 15-8-87 and Khewra to
Mari branch — Daud Khel to Mari .								15-8-92	6.25		!	Dandot on 1-8-59.
•	•	•	•	•	•	•	•	10-0-52		6.25	!!!	
Ghasi Ghat branch— Mahmud Kot to Ghazi (114							1-4-87	10.55		1	
Peshawar-Jamrud branch-	-	•	•	•	•	•		1-3-57		10.55		
Peshawar to Jamrud		٠						1-1-01	11.04	*****]]	
Sind-Pishin section-							- 1			11.04		
Main line -							-					
Ruk to Sibi . Sibi to Sharigh	٠.	•	•	•	•	•		2-5-80 20-8-87	182·97 74·80			
Sharigh to Bostan	:	:	:	:	:	:	:	21-8-87	61.13		, ,	
Base of Bostan tria Bostan to Kila Abd	igle !	loop	•	•	•			25-1-88	0°31 38°14			
Kila Abdulla to Ch			•	•	:	•	.	1-1-92	29.40		'	
			•	•		•	1			386.75		
Loop line-							6	1-5-82	,			
Sibi to Quetta .							31	i i	87:04			†These are the dates of
Quetta to Bostan .							l	†20-3-87 21-8-97	20.57			opening of the old alignment which, owing
Bostan chord .	:	:	:	:	:	:	: 1	1-1-98	1.34			to frequent breaches
							- 1			108.95		to frequent breaches by floods, was dismantl-
Quetta Nushki extension								į.				eu and reamoned in
Spezand Junction to I	íushl	<u>s</u> i	٠					15-11-05	88:28	00.00		certain parts of its length on 15th April
OTAL OPEN MILEAGE FROM	CIEB	BECT	ion (Mir	TAT	LY)	.	1		83.28	1,151.26	1897.
RAND TOTAL OPEN MILEAGE												
RAND TOTAL OPEN MILEAGE	(CO)	amek	CIAI.	AN	D MI	LITAR	(Y)	•••		••	3,690.27	
Downer		M					- 1					-
DOUBLE LINE (COMMERCIA Kiamari to Karachi C	tv				SECT	IONE)-	-1	30-6-97	3.07		l	
77 1 00 1 17	hì M-	nton	ment	•			:	13-5-61	2.30			
Karachi City to Karac	41 06											
Karachi Cantonment t	o Pip	ri	•	•	•	•	.	20-6-97	21:45		1	
Karachi Cantonment i Pipri to Kotri Gidu to Hyderabad	o Pip	ri	:			:		3-5-98	81.89 3.56			
Karachi Cantonment i Pipri to Kotri Gidu to Hyderabad Gulistan to Chaman	o Pir	ri	:	:		:		3-5-98 1-4-13	81.89 3.56 37.58			
Karachi Cantonment t Pipri to Kotri Gidu to Hyderabad Gulistan to Chaman Ab-i-Gum to Kolpur	o Pir	ori	:	:		:		3-5-98 1-4-13 }20-9-92 }	81.89 3.56 37.58 22.78			
Karaohi Cantonment i Pipri to Kotri Gidu to Hyderabad Gulistan to Chaman Ab-i-Gum to Kolpur Lodhran to Samasata Samasata to Khanpur	o Pip	ori	•	:				3-5-98 1-4-13 } 20-9-92 { 1-4-09 2-4-07	81-89 3-56 37-58 22-78 14-80 76-49			
Karaohi Cantonnont (Pipri to Kotri Gidn to Hyderabad Galistan to Chaman Ab-i-Gun to Kolpur Lodhran to Sama-ata Sama-ata to Khanpur Khanpur to Rot	o Pip	ori :		:				3-5-98 1-4-13 } 20-9-92 { 1-4-09 2-4-07 3-4-07	81-89 3-56 37-58 22-78 14-80 76-49 62-00			
Karaohi Cantoumont if Pipri to Kotri Gidu to Hyderabud Gulistan to Chaman Ab-i-dum to Kolpur Lodhran to Samasata Samasata to Khanpur Khanpur to Reti Reti to Robri Robri to Janvari	o Pip	ori :						3-5-98 1-4-13 } 20-9-92 { 1-4-09 2-4-07 3-4-07 1-6-07 21-6-12	81-89 \$.56 37.58 22.78 14.50 76.49 62.00 70.05			
Karaohi Cantonment (Pipri to Kotri Gidn to Hyderahad Gulistan to Chaman Ab-i-Gum to Kolpur Lodhran to Samusata Samusata to Khanpur Khanpur to Reti Beti to Rohri Rohri to Janvari Janvari to Begmanii	o Pip	ori		:				3-5-98 1-4-13 } 20-9-92 { 1-4-09 2-4-07 3-4-07 1-6-07 21-6-12 20-5-14	81 89 3 56 37 58 22 78 14 50 76 49 62 00 70 05 8 70 4 11			
Karaohi Cantonment (Pipri to Kotri Gidu to Hyderabad Gulistan to Chaman Ab-i-Gum to Kolpur Lodhran to Samasata Samasata to Khanpur Khanpur to Reti Beti to Rohri Tohri to Jawari Janvari to Begmanji Khararo to Chahi	o Pip	ori						3-5-98 1-4-13 } 20-9-92 1-4-09 2-4-07 3-4-07 1-6-07 21-6-12 20-5-14 20-5-14	81:89 3:56 37:58 22:78 14:80 76:49 62:00 70:05 5:70 4:11 6:74			
Karaohi Cantonment (Pipri to Kotri Gidn to Hyderahad Gulistan to Chaman Ab-i-Gum to Kolpur Lodhran to Samasata Samasata to Khampur Khampur to Reti Beti to Robri Robri to Jawari Jawari to Begmanji Kharare to Chahi Amritsar to Lahore Lahore to Bahami Bag	o Pip	ori						3-5-98 1-4-13 } 20-9-92 1-4-09 2-4-07 1-6-07 21-6-12 20-5-14 20-5-14 15-1-06 18-10-09	81-89 \$-56 37-58 22-78 14-80 76-49 62-00 70-05 8-70 4-11 6-74 32-38 1-34			
Karaohi Cantonment i Pipri to Kotri Oidu to Hyderabad Onlistan to Chaman Ab-i-Gum to Kolpur Lodhran to Samusata Samasata to Khanpur Khanpur to Reti Reti to Rohri Rekei to Amari Rekei to Amari Khararo to Chahi Amissar to Lahore Lahore to Badami Bag Badami Bag Badami Sag	o Pip	ori						3-5-98 1-4-13 } 20-9-92 1-4-09 2-4-07 1-6-07 21-6-12 20-5-14 15-1-06 18-10-09 8-1-10	81-89 3-56 37-58 22-78 14-80 76-49 62-00 70-05 3-70 4-11 6-74 32-98 1-34 2-88			
Karaohi Cantonment i Pipri to Kotri Gidu to Hyderabad Gulistan to Chaman Ab-i-Gium to Kolpur Lodhran to Samusata Samasata to Khanpur Khanpur to Reti Reti to Januari Rekri to Januari Khararo to Chahi Amritsar to Lahore Labore to Badami Bag Badami Bagh to Shah Amritsar to Jandiah Jandiahi Bagh to Shah Jandiaha to Botari	o Pip	ori						3-5-98 1-4-13 20-9-92 1-4-09 2-4-07 3-4-07 1-6-07 21-6-12 20-5-14 20-5-14 15-1-06 18-10-09 8-1-10 23-3-10 19-7-10	81:89 \$:56 37:58 22:78 14:80 76:49 62:00 70:05 8:70 4:11 6:74 32:88 11:28 7:80			
Karaohi Cantonment i Pipri to Kotri Oidu to Hyderabad Onlistan to Chaman Ab-i-Gum to Kolpur Lodhran to Sama-sta Sama-sta to Khanpur Khanpur to Reti Reti to Rohri Janvari to Begmanji Khararo to Chahi Amritsar to Lahore Lahore to Badami Bag Badami Bagh to Shahi Amritsar to Jandial Jandiala to Botari Botari to Besa	o Pip	ori						3-5-98 1-4-13 20-9-92 1-4-09 2-4-07 3-4-07 1-6-12 20-5-14 15-1-06 18-10-09 8-1-10 23-3-10 19-7-10 10-12-10	81 89 3 56 37:58 22:78 14:50 62:49 62:00 70:05 8:70 4:11 6:74 32:38 13:44 2:88 11:28 7:80 6:85			
Karaohi Cantonment i Pipri to Kotri Gidu to Hyderabad Gulistan to Chaman Ab-i-Gum to Kolpur Lodhran to Samasata Samasata to Khampur Khampur to Reti Beti to Rohri Bohri to Jawari Jawari to Begmanji Khararo to Chahi Amritsar to Lahore Lahore to Badami Bag Badami Bagh to Shah Amritsar to Jandial Jandiala to Botari Botari to Boas Beas to Dhilwan Dhilwan to Hauira	o Pip	pri			• • • • • • • • • • • • • • • • • • • •			3-5-98 1-4-13 20-9-92 1-4-07 3-4-07 3-4-07 1-6-07 21-6-12 20-5-14 20-5-14 15-1-06 18-10-09 8-1-10 23-3-10 19-7-10 10-12-10 28-2-14	81:89 \$:56 37:58 22:78 14:80 76:49 62:00 70:05 8:70 4:11 6:74 32:88 11:28 7:80			
Karaohi Cantonment i Pipri to Kotri Gidu to Hyderabad Gulistan to Chaman Ab-i-Gum to Kolpur Lodhran to Samasata Samasata to Khanpur Khanpur to Reti Reti to Rohri Janvari to Begmanji Khararo to Chahi Amritsar to Lahore Labore to Bademi Bag Badami Bagi to Shahi Amritsar to Lahora Labore to Bademi Bag Badami Bagi to Shahi Amritsar to Lahora Labore to Bademi Bag Badami Bagi to Shahi Amritsar to Jandinda Amritsar to Jahuran Dhilwan to Dhilwan Dhilwan to Hauira	h lara	nmen						3-5-98 1-4-13 20-9-92 1-4-07 1-6-07 21-6-12 20-5-14 20-5-14 20-5-14 15-10-09 8-1-10 23-3-10 10-12-10 28-2-14 12-9-11 12-9-11	8189 3758 2278 1476 6200 7005 870 411 8238 1734 1738 1738 1738 1738 1738 1738 1738 1738			
Karaohi Cantonment i Pipri to Kotri Oidu to Hyderabad Oulidata to Chaman Ab-i-Gum to Kolpur Lodhran to Sama-sta Sama-sta to Khanpur Khanpur to Reti Beti to Rohri Bohri to Jauvari Jauvari to Begmanji Kharare to Chahi Amritsar to Lahore Labore to Badami Bag Badami Bagh to Shah Amritsar to Jandial Jandiala to Botari Botari to Boas Beas to Dhilwan Dhilwan to Hauira Hamira to Jullundur C Jullundur Cantonment	o Pip	nmen	·					35.98 1.413 20.9.92 1.4-09 2.4-07 3.4-07 1.6-07 21.6-12 20.5-14 15-1-06 18-100 23-3-10 19-7-10 19-7-10 18-2-11 13-3-10 19-9-11 13-3-10 20-4-11	81:89 37:58 22:78 17:80 76:49 62:00 37:00 37:00 4:11 6:74 32:38 11:28 7:80 6:85 1:28 6:83 15:93 16:93			
Karaohi Cantonment i Pipri to Kotri Gidu to Hyderabad Gulistan to Chaman Ab-i-Gum to Kolpur Lodhran to Samasata Samasata to Khampur Khampur to Reti Beti to Rohri Rohri to Janvari Janvari to Begmanji Khararo to Chahi Amritsar to Lahore Lahore to Badami Bag Badami Bagh to Shah Amritsar to Jandial Jandiala to Botari Botari to Beas Beas to Dhilwan Dhilwan to Hauira Hamira to Jullundur C Jullundur Cantonment Phagwara to Ludhima Ludhima to Doraha	h hara	nmen	·	• • • • • • • • • • • • • • • • • • • •				35-98 1-413 20-9-92 1-4-09 2-4-07 1-6-07 21-6-12 20-5-14 20-5-14 20-5-14 20-5-14 18-10-09 8-1-10 10-12-10 23-3-10 110-7-10 10-12-10 28-2-14 12-9-11 13-3-10 110-11-11 10-11-11	81:89 37:58 22:78 17:80 76:49 62:00 8:70 8:71 6:74 32:38 11:28 7:80 6:85 11:28 7:80 6:83 10:22 24:30			
Karaohi Cantonment i Pipri to Kotri Gidu to Hyderabad Gulistan to Clamann Ab-i-Gum to Kolpur Louhran to Samasata Samasata to Khanpur Khanpur to Roti Rokri to Jauvari Janvari to Begmanji Khararo to Chali Khararo to Chali Landeri Bagh to Shah Amricas to Jandinia Jandani Bagh to Shah Amricas to Jandinia Jandiala to Botari Botari to Beas Botani to Dhilwan Dhilwan to Dhilwan Dhilwan to Julindur C Julindur Cantonment Phag ware to Ludhiana Ludhiana to Doraha Ludhiana to Doraha	o Pip	nmen						35-98 1-4-13 20-9-92 1-4-09 2-4-07 3-4-07 1-6-07 21-6-12 20-5-14 15-1-06 18-10-09 8-1-10 23-3-10 10-12-10 10-12-10 10-12-11 11-6-11 11-6-11 10-11-11 10-1-11	81 189 37 58 37 58 22 78 62 49 62 40 62 40 62 40 62 40 62 40 62 40 62 40 62 40			
Karaohi Cantonment i Pipri to Kotri Gidu to Hyderabad Gulistan to Chaman Ab-i-Gum to Kolpur Lodhran to Samasata Samasata to Khanpur Khanpur to Reti Reti to Rohri Janvari to Begmanji Khararo to Chahi Amriesar to Lahore Labore to Badwini Bag Badami Bagh to Shahi Amriesar to Jandiala Jandiala Badari Jandiala Jandiala Jandiala Jandiala Jandiala Jandiala Jandiala Guliadur Dhilwan to Haufra Dhilwan to Haufra Ludhiana to Julindur C Julindur Cantonment Phagwara to Ludhiana Ludhiana to Gobindgarh Gobindgarh Golindgarh Gobindgarh Golindgarh Gobindgarh Golindgarh Gobindgarh Golindgarh	o Pip	nmen						35-98 1-413 20-9-92 1-4-09 2-4-07 1-8-07 1-8-07 1-8-07 20-5-14 20-5-14 20-5-14 20-5-14 20-5-14 15-1-06 18-10-19 23-3-10 119-7-10 10-12-10 28-2-14 12-9-11 13-3-10 10-1-11 1-6-11 1-6-11 1-6-11 1-6-11 1-6-11	81 '89 3:58 37:58 22:78 24:78 25:78 26:70 27:78 4:11 32:38 4:74 32:38 1:88 1:88 1:99 1:99 1:99 1:97 1:77 5:05 1:77 5:05			
Karaohi Cantonment i Fipri to Kotri Gidu to Hyderabad Gulidaan to Chaman Ab-i-Gim to Kolpur Louhran to Suma-sta Samasata to Khampur Hendrick to Robri Robri to Janvari Javvari to Begmanji Khararo to Chahi Amritsar to Lahore Lahore to Badami Bag Badami Bagh to Shah Amritsar to Jandinal Jandiala to Botari Botari to Beas Beas to Dhilwan Dhilwan to Hauira Hamira to Jullandur Ludhiana to Joulandur to Hamira to Jullandur Ludhiana to Doraha Ludhiana to Doraha Doraha to Gobindgarh Gobindgarh to Sirkind Sirhind to Rajpura Bajpura to Ambala	o Pip	nmen	· · · · · · · · · · · · · · · · · · ·					35-98 1-4-13 20-9-92 1-4-09 3-4-07 3-4-07 1-6-12 20-5-14 15-1-06 8-1-10 19-7-10 10-12-10 28-2-14 11-3-10 11-1-11 11-1-11 15-12-10 11-1-11 15-12-10 11-1-11 15-12-10 11-1-11 15-12-10 11-1-11 15-12-10 11-1-11 15-12-10 11-1-10 11-11 15-12-10 11-1-10 11-11 15-12-10 11-1-10 11-11 15-12-10	81 '89 37 '58 37 '58 22 '78 14 '80 76 '49 62 '00 70 '05 4 '11 32 '38 1 '28 6 '85 1 '28 6 '85 1 '95 1 '95 1 '95 1 '75 1 '75 1 '75 1 '75 1 '75			
Karaohi Cantonment i Pipri to Kotri Gidu to Hyderabad Gulistan to Chaman Abi-Gum to Kolpur Lodhran to Sumarata Samasata to Khanpur Khanpur to Reti Reti to Rohri Janvari to Begmanj Khararo to Chahi Amritsar to Lahore Lahore to Bademi Bag Badami Bagh to Shahi Amritsar to Lahore Lahore to Bademi Bag Badami Bagh to Shahi Janulala Jandiala	h hara	nmen	· · · · · · · · · · · · · · · · · · ·					35-598 1-4-13 20-9-92 1-4-09 3-4-07 3-4-07 1-6-07 31-6-12 20-5-14 10-5-14 10-1-10 23-3-10 10-12-10 23-3-10 10-12-10 20-4-11 10-1-11 11-1-10 11-1-11 11-1-10 11-1-11 11-1-10 11-1-11 11-1-10 11-1-11 11-1-10 11-1-11 11-1-10 11-1-11 11-1-1-10 11-1-11 11-1-1-10 11-1-11 11-1-1-10 11-1-11 11-1-1-10 11-1-11 11-1-1-10 11-1-11 11-1-1-10 11-1-11 11-1-1-10 11-1-11 11-1-1-10	81 89 3:58 37:58 22:78 22:78 22:78 22:78 4:11 6:70 6:70 6:71 6:73 2:88 1:98 1:98 1:98 1:98 1:98 1:98 1:77 5:00 14:71 15:75 5:00 14:71 15:75 16:73 16:7			
Karaohi Cantonment i Pipri to Kotri Gidu to Hyderabad Gulistan to Chaman Abi-Gum to Kolpur Lodhran to Sumaeata Samaeata to Khanpur Khanpur to Reti Beti to Rohri Janvari to Begmanj Khararo to Chahi Amritsar to Lahore Lahore to Badami Bag Badami Bagh to Shahi Amritsar to Jandinlal Jandiala to Botari Bedavi to Botari Botari to Botari Botari to Botari Botari to Manual Lahore to Galandan Dhilwan to Hauira Dhilwan to Hauira Ludhiana to Jullandur (Jullundur Cantonmont Pag wara to Ludhian Ludhiana to Doraha Gobindgarh to Sirkind Sirkind to Rajpura Bajpura to Ambala Ambala to Kalanour Kalanour to Saharanpu Lahore to Saharanpu Lahore to Saharanpu Lahore to Saharanpu Lahore to Saharanpu Lahore to Saharanpu Lahore to Saharanpu Lahore to Saharanpu	h ara	nmen	· · · · · · · · · · · · · · · · · · ·					35-98 1-4-13 1-4-13 20-9-92 1-4-09 3-4-07 1-6-07 3-4-07 1-6-12 20-5-14 20-5-14 15-1-08 18-10-09 8-1-10 10-12-10 23-8-10 10-7-10 10-12-10 28-2-14 12-9-11 10-1-11	81:89 37:58 47:60 37:58 14:80 62:00 70:00 70:00 70:01 67:11 67:14 92:38 11:28 6:89 6:89 16:99 6:89 16:95 10:22 14:77 5:06 17:75 17:2			
Karaohi Cantonment i Pipri to Kotri Oidu to Hyderabad Onlistan to Chaman Abi-Gum to Kolpur Lodhran to Samaeata Samaeata to Khanpur Khanpur Konglur Kanpur Konglur Kanpur to Begin Robri to Janvari Janvari to Begmanji Khararo to Chahi Amritsar to Lahore Lahore to Badami Bag Badami Bagh to Shah Amritsar to Jandinla Jandinla to Botari Botari to Beas Beas to Dhilwan Dhilwan to Hauira Hamira to Jullandur (Jullundur Cantonment Thag wara to Ludhiana Ludhiana Cantonment Gobindearh to Sirkind Sirhind to Rajpura Rajpura to Ambala Ambala to Kalanour to Saharanpu Kalanour to Saharanpu Kalanour to Saharanpur Kalanour to Saharanpur	h ara	nmen						35-598 1-4-13 20-9-92 1-4-09 3-4-07 3-4-07 1-6-07 31-6-12 20-5-14 10-5-14 10-1-10 23-3-10 10-12-10 23-3-10 10-12-10 20-4-11 10-1-11 11-1-10 11-1-11 11-1-10 11-1-11 11-1-10 11-1-11 11-1-10 11-1-11 11-1-10 11-1-11 11-1-10 11-1-11 11-1-1-10 11-1-11 11-1-1-10 11-1-11 11-1-1-10 11-1-11 11-1-1-10 11-1-11 11-1-1-10 11-1-11 11-1-1-10 11-1-11 11-1-1-10 11-1-11 11-1-1-10	81 89 37:58 14:64 62:00 70:05 5:70 4:11 6:74 32:38 1:34 1:28 1:28 1:28 1:98 1:98 1:98 1:98 1:775			

North Western railway (5' 6" gauge) -concld.

Details of construction-

halfs of construction—
Permanent-way.—The permanent-way is of various types. On the single line, of iron rails there are 60-lb. flat-footed; and 68-lb. double-headed; of steel rails there are 60-lb., 61-lb., 62-lb., 70-lb., 75-lb., 90-lb., and 100-lb. flat-footed; 64-lb. 68-lb., and 75-lb. double-headed; 68-lb., 73-lb., 77½-lb., 84-lb. and 85-lb. bull-headed and 60-lb., 75-lb. and 90-lb. British standard section. On the double line the steel rails are 68-lb. double-headed, 77½-lb. bull-headed and 75-lb., 87-lb., 90-lb. and 100-lb. flat-footed. The sleepers used are chiefly of wood, but cast-iron plates, (aval or report) are and steel reports of the steel rails are similar to the steel rails. (oval or round) pots and steel transverse sleepers are also extensively used.

Ballast. - The line is ballasted throughout with sand, bricks and broken stone.

Fencing. - The line is fenced from Karachi to Lahore and from Lala Musa to Ghaziabad, also from Ruk to Jhatpat. The line between Lala Musa and Peshawar is partially fenced.

Curves.—The sharpest curve is of 455 feet radius.

Gradients.—The snapest curve is of \$455, neet radius.

Gradients.—The ruling gradient of the greater part of the railway is about 1 in 350 with the following important exceptions: between Karachi and Kotri 1 in 190; between Luki and Schwan 1 in 150; between Lalamusa and Peshawar 1 in 100; beyond Sibi 1 in 40 with 1 in 25 banking sections; between Juliundur and Hoshiarpur 1 in 200; between Siakot and Jammu and Gurdaspur and Perhambert, in 170; between Siakot and Jammu and Gurdaspur and Perhambert, in 170; between Siakot and Jammu and Gurdaspur and Pathankote 1 in 170; between Seraikala and Haripur 1 in 100; between Haripur and Havelian 1 in 50; between Daudkhel and Campbellpur 1 in 83; between Rawalpindi and Kohat 1 in 70, except between Khushalgarh and Jamrud 1 in 50; and between Peshawar and Jamrud 1 in 50.

Contract-

Nil .- The line is owned and worked by the State.

Rates and fares. - Certain maxima and minima have been fixed by the Government, between the limits of which the Railway Administration can vary the rates and fares quoted for goods and coaching traffic. Statistics of working (Those for the periods prior to 1886 will be found in Appendix 38 to the Railway Administration Report for 1907.) -

Includes the Kohat-Thal, Nowshers-Durgai and Trans Indus (Kalabagh-Baunu) railways from date of opening, and the Kalka-Simla railway from 1907, the year in which it became an integral part of the North Western railway system.

		tlay, includ . to end of ., outlay on m and (if) or who lly uction.			al outlay	Government share of		income outlay (3).		,	Gain or	cia	nmer- l sec- ion.		itar y tion.		tire ne.
Year.	Mileage open at end of each year.	Total capital outlay, it ing suspense, to the cach year, i.e., outla (i) lines open and lines partly or we under construction.	Gross earnings.	Net carnings.	Perceptage of net of ings on total capital criven in column (3).	surplus pro- fits less payments made on account of rebute.	Total income (column 5+column 7).	Percentage of total i	Interest.	A y maity.	loss to the State pertaining to cach year.	Earnings per mile per week,	Pro: of exp:	Earnings per mile per week.	Pro: of exp: to earnings.	Earnings per mile per week.	Pro: of exp; to entities,
1	2	3	4	5	6	7.	8	9	10	11	•18	13	14	15	16	17	18
1886 1887 1888 1889 1691 1691 1692 1894 1896 1896 1890 1900 1901 1902 1903 1904 1905	2,388-76 2,442-73 2,442-76 2,445-99 2,528-92 2,653-23 2,653-21 2,673-90 2,917-92 2,917-92 2,943-90 3,117-37 3,147-46 3,255-73 5,317-84	49,07,95,750 49,65,81,389 50,27,26,380 50,85,96,582 51,54,17,599 52,81,86,554	Ra. 2,63,60,901 2,210,93,88 2,57,79,305 2,92,10,820 2,92,10,83,93 2,73,99,035 2,92,83,56 2,92,84,749 3,52,14,94,749 3,52,14,749 3,52,14,749 3,15,22,277 4,12,19,27 4,11,19,27,	1,02,84,741 1,02,67,601 1,24,32,521 94,50,000 97,97,643 1,28,25,181 1,04,46,998 1,18,86,400 1,49,78,897 1,85,74,360 1,60,89,223 1,32,19,151 2,03,56,471 1,73,70,094 2,61,08,617	8'32 1'51 2'11 2'45 2'45 2'88 2'20 2'85 3'53 2'47 3'05 3'74 3'20 2'60 3'95 4'07 5'86 6'04	Rs	Rs. 1, 19, 92, 839 (6, 57, 77, 586 83, 96, 598 1, 92, 84, 741 1, 92, 57, 901 1, 21, 32, 521 1, 23, 25, 181 1, 63, 40, 98, 400 1, 18, 68, 400 1, 18, 68, 400 1, 18, 68, 400 1, 18, 68, 400 1, 18, 57, 43, 900 1, 24, 16, 97, 106, 1, 32, 15, 580 2, 96, 507, 32, 25, 48, 57, 48, 57, 48, 57, 48, 57, 48, 57, 48, 57, 48, 57, 48, 57, 48, 57, 48, 57, 48, 57, 48, 57, 57, 57, 57, 57, 57, 57, 57, 57, 57	1.51 2.11 2.45 2.88 2.20 3.23 2.85 3.53 2.47 3.74 3.74 3.74 3.74 3.74 3.74 3.74 3	Rs. 1,14,07,148 1,01,66,779 1,09,14,938 1,13,76,518 1,13,76,518 1,20,97,742 1,24,24,30,30 1,27,61,61,22,37,32,32,33,32,33,43,74 1,42,35,427 1,42,35,427 1,42,35,427 1,43,40,001 1,55,43,20 1,63,43,001 1,63,43,001 1,63,43,001 1,63,43,001 1,63,43,001 1,63,43,001 1,63,43,001 1,63,43,001 1,63,43,001 1,63,43,001 1,63,43,001 1,63,43,001 1,63,43,001	Ru, 63,00,735 80,30,325 83,46,766 83,46,768 80,46,770 90,98,64,777 90,98,11	-1, 24, 09, 518 -1, 08, 08, 096 -94, 60, 543 -88, 63, 307 -78, 40, 326 -1, 19, 59, 146 -1, 20, 62, 544 -73, 71, 280 -86, 76, 53 -73, 63, 63 -75, 20, 702 -71, 11, 78, 44 -71, 71, 72, 76 -71, 71, 71, 72, 76 -71, 71, 72, 76 -71, 71, 72, 77 -71, 71, 72, 77 -71, 71, 72, 77 -71, 71, 72, 77 -71, 71, 72, 77	290 283 344 250 313 347 379 202 354 326 275 350 360 421 519	54.05 55.60 65.58 60.20 53.11 48.79 54.68 49.70 45.98 47.73 52.34 45.41 53.63 44.42 42.29	11s 90 88 88 70 69 67 65 75 75 75 75 75 75 75 75 75 75 75 75 75	107.75 110.73 122.41 131.08 122.71 122.95 116.14 97.77 93.70 101.26 123.43 107.61 90.55 112.42 106.91 113.47 04.82	182 202 224 219 261 208 253 274 220 225 232 202 256 262 294 361	72:53 67:37 63:36 62:38 62:38 62:38 64:50 66:50 66:50 53:30 59:65 54:35 50:80 54:35 50:80 54:35 50:80 54:35
1908 1907 1908 1909 1910	3,614.89 3,618.10 3,723.91	64,67,43,048 69,00,11,581	6,18,66,041 7,04,86,241 5,61,66,152 6,79,03,754 7,41,00,787	3,38,51,129 *93,38,475 2,13,69,240 2,51,73,007	4.84 5.23 1.35 2.95 3.41	7,44,270 8,35,068 3,37,037 5,83,661	2,98,74,759 3,45,99,599 99,73,543 2,17,06,277 2,57,50,668	5:35 1:45 3:00 3:50	1,87,21,081 1,54,47,585 1,86,33,292 1,96,54,274 2,00,55,641		+1,01,74,584 -1,72,37,179 -65,25,427	534 113 409		79	101*07 112*58 14**06 140*79 122*61	298 355 382	61*93 83*34 68*46
1911 1912 1st qr.		75,48,44,149 78,03,55,336	7;93,67,066 9,06,27,413		4·15 5·60	4, 49,374 6,82,983	3,17,17,809 4,43,98,940		2,11,48,800 1,20,07,200	85,77,430 85,77,430	+19,31,579 +1,37,54,310		56·26 48·12		100.16		60°61 81°76
1913	3,814.97	79,99,81,406	2,00,25,197	50,07,041	0.03	~71,463	49,35,561	0.62	55,89,885	21,44,367	27,38,681	220	70.90	83	130.03	403	75:00
1913-	4,011.62	83,24,56,549	8,67,13,050	3,67,40,434	4 41	7,50,767	3,74,91,201	4.20	2,35,18,210	85,75,185	+54,02,806	574	51:31	98	99:30	423	57 163
1914	4,010-48	85,87,48,950	8,17,13,591	3,05,18,372	3.88	3,43,414	3,08,61,786	3.20	2,53,15,258	85,75,215	-30,28,667	518	59 -38	111	96-27	319	62-65
1915-	4,009*38	86,38,39,993	8,41,06,715	3,60,63,793	4.12	45,324	3,61,09,117	4.18	2,58,65,810	85,88,505	+18,55,002	531	53 86	118	89.33	40	57 ·12
16 1916- 17	4,057*98	87,37.14,828	9.83,15,25	5,10,32,430	5.84	1,72,266	5,12,04,696	5.86	2,46,10,281	91,87,155	+1,74,07,260	615	44.80	131	8274	465	48.09
1917- 18	+3,987·7 2	87,17,78,646	12,20,98,589	6,97,52,991	8.00	6,10,873	7,08,03,866	8-07	2,50,29,720	11,45,665	+3,52,88,470	769	30.73	160	76 50	580	49:87

The decrease in net earnings in 1906 was due chiefly to extraordinary charges incurred in the repairs of flood damages, accentuated by a fall in the gross earnings consequent upon the failure of the wheat export trade from Karachi and the diminution of traffic generally owing to famine and extensive breaches of the line caused by floods.

17he decrease is: 9×

176RB

Amritsar-Patti railway (5' 6" gauge)-

Date of registration of the Company .- 12th April 1905.

Progress in opening-

	Sections of railway.											•	Date of opening.	Miles.	Total.
				1.									2	3	4
Amritage to Tarn Teran Tarn Taran to Patti . Patti to Kasur	:	•	:	:	<i>:</i>	:	:	:	:	:	:	:	21-9-06 30-12-06 4-4-10	15 '0 0 12'05 27'21	
										To					54:26

Details of construction-

Permanent-way.—The permanent-way consists of 75-lb. flat-footed British standard steel rails laid on deedar. jarrah, chir and douglas fir sleepers.

Ballast .- The line is ballasted throughout with broken stone.

Rencing.—Station yards only are fenced.

Curves.—The sharpest curve is of 1,910 feet radius.

Gradients .- The ruling gradient is 1 in 200.

Agreements and Contracts-

Agreements and Contracts—
Agreement, dated the 21st March 1905, between the Secretary of State and Messrs. Rillick, Nixon and Company of Bombay, we to the formation and establishment of the Amritsar-Patti Railway Company. Contract, dated the 22nd May 1905, between the Secretary of State and the Amritsar-Patti Railway

Company, as to the construction, maintenance, management and working of the Amritsar-Patti railway.

Agreement, dated the 17th March 1909, between the Secretary of State and the Amritaar-Patti Railway Company, as to the raising of capital and execution of contract in connection with the construction of the Patti-Kasur extension

Agreement, dated the 7th May 1909, between the Secretary of State and the Amritsar-Patti Railway Company, as to the reduction of the capital amount.

Contract, dated the 7th May 1909, between the Secretary of State and the Amritsar-Patti Railway Company, as to the construction, maintenance, management and working of the Patti-Kasur extension as an integral part of the Amritsar-Patti railway.
Railway Board's letter No. 92-934-P., dated the 26th March 1915, sanctioning an additional (nominal

Debenture) capital of 10 lakl s.

Contract, dated the 28th October 1915 (supplemental to the contract of 1905 and 1909), between the Secretary of State and the Amritaar-Patti Railway Company, as to the adoption of the Government linancial year for the preparation of accounts, etc.

Main provisions of agreements and contracts—
(i) Land.—Provided by the Government free of cost to the Company, except for quarrying ballast

(ii) Government aid.—The Government constructed the line (from funds supplied by the Company works.

(ii) Government aid.—The Government constructed the line (from funds supplied by the Company whose property it is), and manage, maintain, stock and work it, through the agency of the North Western railway.

By way of relate the Government allow the Company, in respect of each year, such a sum, up to 45 per cent of the gross carnings from traffic (excluding those derived from the carriage of stores) interchanged between the North Western railway and the Amritsar-Patti carriage of stores) interesting to everent the North vestern rathway and the Amilisar-Patin railway, as shall, together with the net earnings of the Company, make up an amount equal to an interest for the year at a rate of 5 per cent per annum on the paid-up share capital and at 4½ per cent, on the amount of debentures, as also, up to the same limit, Rupees 7,200 on account of office expenses and expenses of management and direction. They also allow all such legal expenses as may be properly incurred by the Company and approved by the Secretary of State or the Government of India and as are debitable to Revenue.

(iii) Terms of working .-

(iii) Terms of working.—

For management, maintenance, working and provision of rolling-stock, the Government retain 45 per cent of the gross earnings in each half-year of the Amritsar-Patti railway; the remainder, constituting the net earnings, is paid to the Comrany.

But should the not earnings of the Company in any year exceed the minimum amount sufficient to pay a dividend of 5 per cent per annum, on the paid up share capital and 42 per cent on the amount of debentures, such excess is to be applied towards the payment of office expenses and expenses of management and direction [referred to under (ii)] up to a limit of Rs. 15,000, the balance being divided equally between the Government and the Company.

(v) Rates and fares.—To be arranged between the Government and the working agency within the

maximum and minimum in force on, and the classification of goods to be in conformity with that of the North Western railway.

(vi) Special obligations as to the conveyance of .-

(a) Mails, troops, police, high Government officials and Government stores.-(b) Government bullion and coin, and

To be conveyed at the same rates and under the same arrangements as apply to State railways.

the persons in charge thereof .-(vii) Power of the Government to determine contract .- The Government may, by giving twelve months' previous notice of purchase, determine the contract either on the 31st December 1935 or on the slist December in the last year of any subsequent period of 10 years, by paying to the Company in rupees 25 times the average yearly not earnings of the Company during the three years immediately preceding the date of determination, subject to a limit of 20 per cent in excess

of, but not less than the total capital expenditure of the Company. (viii) Fower of the Company to surronder contract.—Nil.

(ix) Term of contract [if not determined under (vii)] .- None specified.

Amritsar-Patti railway (5' 6" gauge)-concld.

Statistics of working-

Year. Mile op at a of e ye	nd ach	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross		Percentage of net earnings on total capital outlay given in column (3).	Govern- ment share of surplus profits.	5 +	Percent- age of total income on total capi- tal outlay in column (3).	Earnings per mile per week.	Proportion of exponent to earnings.
1 1		3	4	5	6	7	8	9	10	11
1307 22 1308 27 1309 22 1310 54 1311 54 1312 54 1314 qr. of 1313 54 1314-15 54 1315-16 54 1316-17 54	26 26 26 26 26 26 26 26 26	Rs. 11,90,904 14,19,465 14,87,400 17,88,129 26,67,469 22,87,0,826 28,85,820 29,55,800 32,49,002 84,04,702 33,96,696 33,06,991	Rs. 15,388 1,61,280 1,79,461 2,18,889 3,64,322 4,70,792 5,24,419 1,48,642 7,41,391 7,02,381 6,79,328 6,69,598 4,98,312	Re. 8,452 88,704 99,703 1,20,103 2,00,378 2,58,936 2,88,431 81,753 4,07,765 3,86,818 3,78,630 3,68,278 2,74,071	0·71 6·25 6·63 6·72 7·51 9·02 10·03 2·88 13·79 11·89 10·97 10·84 8·05	Rs. 3,726 4,852 15,957 30,922 49,275 61,317 78,965 1,19,964 1,49,118 67,722 40,982	84,52 84,978 93,851 1,04,146 1,09,456 2,01,681 2,27,114 81,753 3,28,800 2,66,846 2,24,512 2,80,556 2,33,089	0.71 5.99 6.24 5.82 6.35 7.31 7.91 2.88 11.12 8.19 6.59 8.26 6.784	Rs. 60 113 126 152 146 167 186 210 268 249 230 237	45'00 45'00 45'00 45'00 45'00 45'00 45'00 45'00 45'00 45'00

Hoshiarpur Doab Branch railways (Jullundur-Mukerian and Phagwara-Rahon railways) (5' 6" gauge)---

Date of registration of the Company .- 27th February 1914.

The construction of the Jullundur-Mukerian and Phagwara-Rahon railways by the Hoshiarpur Doab Branch Railways Company was authorised by the Railway Board in their letter No. $\frac{n+7}{3}$ -R.C., dated the 13th March 1914.

Progress in opening-

	Sect	tion	of r	ailw	Date of opening.	Miles.	Total.						
			1					-			 2	3	
Juliunder-Mukerian Rat Juliunder City to Tanda Tanda Urmer to Dasuya Dasuya to Mukerian	Urm	ır.	:	٠	·	:	- KERIA	٠	•	•	1-1-15 1-2-15 1-3-15	25-27 9-45 10-09	
	1	OIAI	. .	UL U N	DUR	- 31 0 1	Z E.R.12		A11. V	***		•••	44.81
PHAGWARA-RAHON RAILWAY Main line - Phagwara to Kariah . Kariah to Rahon .											1-4-15 27-5-15	17 [.] 84 7:95	•
Karian to immon .	•	•	•	•	•	•	•	•	•	•	27-5-15	795	25.79
Jaijon extension— Nawashahr to Jaijon											3-5-17	19:42	19:42
•		To	TA1	PH	GW A	RA-F	01145	N RA	ILW	AΥ	 	***	45:21

Details of construction-

- Permanent way.—The permanent-way on the two railways consists of 53½-lb. and 60-lb. flat-footed steel rails on deoder sleepers. The 55½-lb. rails are in all respects, except in the width of foot, similar to the 60-lb. rails which are of British Standard section.
- Ballast.—Both the railways are ballasted with stone. The facing points, crossings, passenger platforms, level crossings, bridge approaches and sharper curves on the Phagwara-Rahon railway are ballasted with brick.
- Fencing.—Penoing has been provided only at first class level crossings for a short distance on each side of the gates.
- Curres .- 'The sharpest curve is of 1,910 feet radius.
- Gradients.—The ruling gradient on the Jullundur-Mukerian railway is 1 in 300 and on the Phagwara-Rahon railway, 1 in 500 on the main line and f in 100 on the Jaijon extension.

Contract-

- Dated the 21st February 1917, between the Secretary of State and the Hoshiarpur Doab Branch
 Railmans Company, as to the construction, maintenance, management and working of the
 Hoshiarpur Doab Branch railways (Jullundur Mukerian and Phagwara-Rahon railways.)
- Railway Board's letter No. 20-P., dated the 22nd January 1916, authorising to increase the nominal capital of the Company from Rs. 50 lakhs to Rs. 65 lakis and sanctioning an additional allowance of Rs. 2,000 per annum for administrative charges of the Company in respect of the Jaijon entension.
- [Norz.—A supplemental contract extending the terms of the contract of 21st February [1917 to the Jaijon extension is under consideration.]

Hoshiarpur Doab Branch railways (Jullundur-Mukerian and Phagwara-Rahon railways) (5' 6" gauge)—concld.
Main provisions of contract—

 (i) Land.—Land in British territory provided by Government free of cost to the Company.
 (ii) Government aid.—By way of rebate Government allow to the Company, in respect of each year, such a sum, not exceeding the net earnings of the North Western railway derived from all traffic, except stores for maintenance and working, interchanged between the North Western railway and the said railways, as shall, together with the net earnings of the Company, be equal to the interest for the year at a rate of 5 per cent per annum on the share capital of the Company for the time being paid up. They also allow, subject to the conditions mentioned in clause 6, Schedule II of the agreement, Rs. 12,000 and such other actual expenses for or towards the office expenses and expenses of management, and direction of the Company as are specified in that clause, as also all such legal expenses as may be properly incurred by the Company and approved by the Secretary of State or the Government of India and as are under the provisions of the agreement debitable to Revenue.

(iii) Terms of working.—For management, maintenance, working and use of rolling-stock, Government retain 50 per cent of the gross earnings of these railways in each half-year, the remainder

constituting the net earnings is paid to the Company.

(iv) Distribution of profits.—Should the net carnings of the Company in any year exceed the minimum amount sufficient to pay a dividend of 5 per cent per annum, such excess is to be applied towards the payment of the office expenses and expenses of management and direction of the Company stated under (ii), the balance, if any, being divided equally between the Government and the Company, provided that if the surplus profits are insufficient to meet the administration charges, the difference will be paid to the Company by the working agency out of the stipulated amount retained by the latter as working expenses.

(v) Hates and fares.—To be sanctioned by the Secretary of State within the maximum and minimum in force on, and the classification of goods to be in conformity with that of, the North Western

railway.

(vi) Special obligations as to the conveyance of .-

(a) Mails, troops, police, high Government To be conveyed in all respects as far as officials and Government stores .-practicable in the same manner and subject to the same regulations and control by the (b) Government bullion and coin, and the i Secretary of State as the same are conveved

persons in charge thereof.on the North Western railway.

(vii) Power of the Government to determine contract.—Government may, on giving 12 months' previous notice of purchase in writing, determine the contract on the 31st March 1946 or on the 31st March in the last year of any subsequent period of 10 years by paying to the Company in rupces, 25 times the average of the yearly net earnings (excluding payments on account of rebate) during the 3 years, immediately preceding the date of determination, subject to a limit of 20 per cent in excess of, but not less than, the total capital expenditure of the Company.

The Government may also, by giving 12 months' previous notice of "special purchase" determine the contract at any time in the following cases, by paying in rupee currency to the Company 25 times the average of the yearly net earnings (excluding payments on account of rebate) during the 3 years preceding the date of determination or \$15\$ per cent of the total capital

(a) when it is considered desirable to convert the railways,

(b) when it is considered desirable to convert the railways into a line of through communication,

(c) when it is considered desirable to extend the said railways and the Company fails to raise additional capital for such extension within 6 months from date of receipt of the formal requisition from Government.

(viii) Power of the Company to surrender contract.—Nil.
(ix) Term of the contract.—From 21st February 1917 to 31st March 1946 and thereafter as noted

under (vii). Statistics of working—

Year,	at en each	PR	outlay, ing susp end of er i.e., outl lines op (ii) line or who	ach year,	G r earn	oas ings.	Ne carnir		of ne ing total out give colu	mue 4	share of surplus	Total income.	Percentage of total income on total enpital outlay given in columns 4 and 5.	per per	nings mile week.	Proportion of expenses te
	Ry.	Ry.		Ry.	Ry.	Ry.	Ry.	Ry.	RJ.	Ry.				Ry.	Ry.	
1	•	3	•	5	6	7	8.	8.		11	12	13	16	15	15	17
1914-15 1918-16 1916-17 1917-18	45'40 44'81 44'81	25.79	19,88,437 31,78,124 31,47,561 28,89,137	12,97,446 23,33,847	2.11.597	1,88,431	1,397 72,559 1,06,799 1,02,335	63,281 94,241 96,686	8.36	4.67 4'06 3'75		1,397 1,35,840 2,25,000 2,91,451	0°07 3 08 4°11 5°33	5 62 -91 88	94 110 85	50:00 50:00 50:00 50:00

Jammu and Kashmir (Native State section) (5' 6' gauge)-

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
1	2	3	4
Frontier of the Kashmir State to the left bank of the Tawi river near Jammu.	15-8-90	16.01	16-61

Letails of construction-

Permanent-way.—The permanent-way consists of 75-lb. flat-footed steel rails laid on transverse sleepers of deodar.

Ballast .- Tae line is ballasted throughout with broken stone.

Fencing .- The line is unfenced except at Sialkot station.

Curves .- The sharpest curve is of 2,865 feet radius-

Gradients,-The ruling gradient is 1 in 200.

Agreements-

Dated the 19th April 1913, having effect from 1st June 1912, between the Government of India and the Kashmir Durbar, as to construction and working.

Corrigendum, dated 14th September 1915, between the Government of India and the Rashmir Durbar, modifying the agreement of 19th April 1913.

Main provisions of agreement-

- (i) Land .- Provided free of cost by the Durbar and the Government in their respective territories.
- (ii) Government aid.—The section was constructed (from funds supplied by the Kashmir Durbar, whose property it is), and is managed, maintained, stocked and worked by the North Western railway. By way of rebate the Government allow to the Durbar a payment on traffic interchanged with the North Western railway to such extent, as, together with the share of net earnings attributable to the section, will afford a total dividend of 81 per cent per annum on the actual capital expenditure to end of each half-year, subject to the proviso that such rebate in no case exceeds the North Western railway's net earnings from traffic interchanged with the section.
- For management, maintenance, use of roiling-stock and work (iii) Terms of working .-For management, mannenance, as 55:50 per cent of the gross jing, the North Western railway retains 55:50 per cent of the gross (iv) Listribution of profits .carnings of the section, the remaining 44-50 per cent together with rebate being credited to the
- (v) Rates and fares.—To be such as are from time to time in force on the main line of the North Western railway.
- (vi) Special obligations as to the conveyance of .-
 - To be conveyed on the same general (a) Mails, troops, police, high Government officials) conditions as those in force on the main and Government stores .--(b) Government bullion and coin, and the persons in \ line of the North Western railway.
 - charge thereof .-
 - (c) Services to the Durbar. As in clauses 15, 16 and 17 of the agreement.
- (vii) Power of the Government to determine agreement .-) The agreement is terminable on six months'
- (viii) Power of the Durbar to surrender agreement .notice by either party.
- (ix) Term of agreement .-

Statistics of working. (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Alministration Report for 1907.)—

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under con- struction.	Gross earnings.	Net carn- ings.	Percentage of not earnings on total capital outlay given in column (3).	from	Total income.	Percentage of total income on total capital ontlay given in column (3).	Earnings per mile per week.	Preportion of expenses to cornings.
1	2	3	4	5	6	7	8	9	10	11
1908 . 1909 . 1910 .	Miles 15-93 15-98 15-79	Es. 9.93.606 10,01,019 10,10,234	Rs. 85,390 83,927 86,918	Rs. 37,999 37,347 38,679	8:82 3:70 8:82	Rs. 	Rs. 37,999 37,347 38,679	3·82 3·70 3·82	Re. 103 101 106	55·50 55·50 55·50
1911 1912	15:79 15:79	10,14,336 10,27,239	98,823 81,400	43,977 36,228	4·33 3·50		43,977 36,223	4·93 8·50	120 99	55·50 55·50
lat qr. of 1913, 1913-14 1914-15 1915-16 1916-17 1917-18	15:79 16:01 16:01 16:01 16:01 16:01	10,28,739 10,28,648 10,50,361 10,52,682 10,54,077 10,60,116	20,398 1,15,662 1,04,032 1,86,208 1,21,600 1,11,528	9,077 51,470 46,294 60,611 54,112 49,628	0.88 5.00 4.41 5.76 5.13 4.68	••• ••• ••• •••	9,077 51,470 46,294 60,611 54,112 49,628	0.88 5.00 4.41 5.76 5.18 4.68	99 140 125 163 146 134	55-50 55-50 55-50 55-50 55-50 55-50

Khanpur-Chachran railway (5' 6" gauge) --

Progress in opening-

-	86	ection of railwa	у.		Date of opening.	Miles.	Total.
-		1		 	2	3	4
K	hanpur to Chachran .	<u> </u>			2-7-11_	22.02	22.03

Details of construction-

Permanent-way.—The permanent-way consists of 60-lb. flat-footed steel rails laid on jarrah sleepers.

Ballast .- The line is ballasted with brick and stone.

Fencing .- The line is not fenced.

Curres .- The sharpest curve is of 1,910 feet radius.

Gradients .- The ruling gradient is 1 in 500.

Dated the 21st August 1912 (having effect from the 1st January 1911), between the Secretary of State and the Bahawalpur Durbar, as to the construction, maintenance and working of the Khanpur-Chachran railway by the North Western railway.

Corrigendum (having effect from 1st April 1913) to the agreement of 21st August 1912, as to the adoption of the Government financial year for the preparation of accounts.

Main provisions of agreement-

- (i) Land .- To be provided free of cost by the Bahawalpur Durbar, both during and after construction.
- (ii) Government aid .- The line was constructed by the Government (from funds supplied by the Bahawalpur Durbar, whose property it is), and is managed, maintained, stocked and worked, through the agency of the North Western railway as if it were part of its system.

By way of rebate Government allow to the Durbar a sum not exceeding in any year the net carnings of the North Western railway from traffic interchanged with the Khanpur-Chachran branch railway, excluding the net carnings from carriage of railway stores, as shall, together with the net carnings of the branch, make up an amount equal to interest at 3 per cent per annum on the actual expenditure charged in the capital account of the branch.

- (iii) Terms of working.—

 (iv) Distribution of profits.—

 (v) Rates and fares.—To be the same as may, from time to time, be in force on the North Western time to time, be in force on the North Western time to time, be in force on the North Western time to time, be in force on the North Western time to time, be in force on the North Western time to time, be in force on the North Western
- raisav. (vi) Special obligations as to the conveyance of .-
 - To be carried on the same general con-(a) Mails, troops, police, high officials and stores | ditions and at the same rates as may for of both the Government and the Durbar.— | the time being be in force on the North
 - (b) Government and Durbar bullion and coin, and | Western railway.
- the persons in charge thereof.

 (vii) Power of the Government to determine agreement.—

 January or let July in any year after 1935, on six months' previous notice given by either months, and time, on six (viii) Power of the Durbar to surrender agreement.— Six months' previous notice given by either party to the other. The Government may also determine the agreement at any time, on six months' notice, should either the North Western railway or the Bahawalpur Durbar fail to observe their respective obligations.

Upon the determination of the agreement the North Western railway shall give to the Bahawalpur Durbar possession of the Khaupur-Chachran railway, together with all its belongings and moneys then payable to it, after which the Bahawalpur Durhar shall indemnify the North Western railway against all debts and liabilities as may have been incurred and then be subsisting on behalf of the Khanpur-Chachran railway.

(ix) Term of contract .-- From the 1st January 1911 until 1935, and thereafter as noted under (viii).

Statistics of working-

Year.	Mileage open at ond of each year.	Total cupital outlay, including suspense, to end of each year, i.e., outlay an . (i) lines up and (ii) lines partly or wholly under construction.	Gross carnings.	Not carn- ings.	Percentage of net carrings ou total contral-outlay given in column (3).	Rebato from North Western railway.	Total	Porcentage of total income on total capital outlay given in column (3).	Karn- ings per mile per week.	Proportion of expenses to carn.
1	2 ,	3	4	5	6	7	8	9	10	11
1911 . 1912 .	Miles. 22.03 12.02	Rs. 13,95,947 13,83,571	Rs. 12,861 28,854	Rs. 6,431 14,426	0·16 1·01	Ks. 13,721	Rs. 6.431 28,147	0·46 2·03	Rs. 22 25	50.00 50.00
1st qr. of 1913 1913-14 1914-15 1915-16 1917-17 1917-18	22:02 22:02 22:02 22:02 22:02	18,05/129 14,10/,057 14,07,038 11,09,9-7 13,05,003 14,00,003	6,720 36,875 36,516 32,815 39,729 33,260	3,360 18,437 18,257 16,407 19,665 16,600	0 24 1 31 1 30 1 17 1 42 1 19	13,567 17,937 24,179 87,794 22,134 25,870	16,927 36,374 42,436 51,201 41,999 42,000	1.21 2.60 3.03 3.87 8.00 8.00	23 82 32 29 35 29	50*00 50*00 50*.0 50*00 50*00

Ladhiana-Dhuri-Jakhal railway (5' 6" gauge)-

Progress in opening-

Section	n of	rai	lway	•						Date of opening.	Miles.	Total.
		1						-	 	2	3	4
Ludbiana vid Dhuri to Jakhal					•		•	:		10-4-01	78-65	78.65

Details of construction-

Permanent-way. - The permanent-way consists of 75-lb. flat-footed steel rails laid on transverse sleepers of deodar.

Ballast.-The line is ballasted throughout with brick, stone and kunkur.

Fencing -Only station yards and about 100 feet on each side of level crossings are fenced.

Curres .- The sharpest curve is of 1,364 feet radius.

Gradients .- The ruling gradient is 1 in 400.

Agreement -

Dated the 6th September 1899, between the Secretary of State and the Maler Kotla and Ihind Durbars as to the construction, maintenance and working.

Main provisions of agreement-

- (i) Land .- Provided free of cost by the Government in the case of British territory and by the Durbars concerned in the case of Native States' territory up to the date of the agreement of 1899; thereafter all land provided by the Maler Kotla and Jhind Durbars is debited to capital.
- (ii) Government aid .- The Government constructed the line (from funds supplied in the ratio of \$ths, and th, respectively, by the Jhind and Maler Kotla Durbars, whose property it is), and manage, maintain, stock and work it, through the agency of the North Western railway, as part of its system.
- (iii) Terms of working .-For management, maintenance, provision of rolling-stock and working the North Western railway retain 55 per cent, which has, with effect
- (iv) Distribution of profits. from the 1st January 1913, in pursuance of Railway Boaro's letter No 192-R.T, dated the 29th January 1913, been reduced to 52 per cent, of the gross carnings; and the balance is paid to the Jhind and Maler Kotla Durbars to be divided between them in the ratio of 4ths to the former and 4th to the latter.
- (v) Rates and fares .- To be the same as may, from time to time, be in force on the North Western
- (vi) Special obligations as to the conveyance of .-

 - (a) Mails, troops, police, high officials and stores, both of the Government and the Durbars.—
 (b) Bullion and coin of Government and the Durbars, and the persons in charge thereof.—
 To be carried on the same general conditions and at the same rates as may for the time being the inforce on the North Western railway.
- bars, and the persons in council.

 (vii) Power of the Government to determine agreement.—

 (viii) Power of the Durbars to surrender agreement.—

 Beither party may determine the agreement on the 1st January or 1st July in any year, (viii) Power of the Durbars to surrender agreement .- .
 - on the 1st January or 1st July in any year, by giving six months' previous notice to the other. The Government may also determine the contract at any time on six months' notice in writing should either the North Western railway or the Durbars fail to observe their respective obligations. Upon the determination of the agreement the North Western railway will give to the Maler Kotla and Jhind Durbars possession of the railway, all its belongings and moneys then payable to them, after which the Durbars will indemnify the North Western railway against all debts and liabilities as may have been incurred and then be subsisting on behalf of the Ludhiana-Dhuri-Jakhal railway.

Statistics of working (Those for theperiods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., onthay on (i) lines open, and (ii) lines partly or wholly under con- struction.	Gross earnings.	Net earnings.	Percentage of net carnings on total capital outlay given in column (3).	Earnings	Proportion of expouses to earnings.
1	3	3	4	5	6	7	8
The second secon	Miles.	Rs.	Кв.	Bs.		Rs.	i
1908	78.65 78.65 78.65	41,86,647 41,99,158 41,88,289	6,24,593 6,13,490 8,39,707	2,81,067 2,76,070 3,78,818	6:71 6:59 8*93	153 150 203	55:00 55:00
1911	78.65 78.65 78.65 78.65 78.65 78.65 78.65	41.92,181 41,91,995 41,96,109 42.19,576 42.37,467 42,53,978 42,43,185 43,17,455	6,55,093 7,16,119 2,00,611 8 92,734 7,49,354 9,08,985 8,58,408 7,62,036	2,94,792 3,22,253 99,275 4,34,531 3,59,600 4,36,818 4,12,035 3,65,778	7'03 7'68 2'15 10'30 8'49 10'26 9'61 8'47	160 175 196 218 183 221 209 186	55.00 55.00 55.00 51.83 52.00 52.00 52.00 52.00

Mandra-Bhaun railway (5' 6" gauge)-

Date of registration of the Company .- 18th November 1913.

The construction of this line by the North Western railway for the Mandra-Bhaun Railway Company was sanctioned under Railway Board's Notification No. 355, dated the 3rd December 1918.

Progress in opening-

	8	ectio	ns of	railv	гау.							Date of opening,	Miles.	Total.
				1								2	8	4
Mandra to Dhudial . Dhudial to Chak Naurang	:	:		•	:	:	•	•	•	•	•	1-5-15 1-6-15	27·25 4·25	
								:	•	:		1-9-15 15-1-16	7·86 7·02	
				·	•			Tor	A.E.	·	·			46.38

Details of construction-

Permanent-way.—The permanent-way consists of second-hand 60-lb. flat-footed steel rails laid on creopine,

Douglas fir and second-hand steel trough sleepers.

Ballast.-The line is ballasted with stone.

Fencing .- The line is unfenced.

Curves .- The sharpest curve is of 955 feet radius.

Gradients.—The ruling gradient is 1 in 100 compensated.

Contract-

Dated the 15th October 1914, between the Secretary of State and the Mandra-Bhaun Railway Company, as to the construction, maintenance, management and working of the Mandra-Bhaun railway.

Main provisions of contract-

- (i) Land-Provided by the Government free of cost to the Company.
- (ii) Government aid—The line was constructed by the Government (from funds supplied by the Mandra-Bhaun Railway Company whose property it is), and is managed, maintained, stocked and worked through the agency of the North Western railway as if it were part of its system.

By way of rebate the Government allow to the Company, in respect of each year, such a sum, not exceeding the net carnings of the North Western railway derived from all traffic (except stores) interchanged between the North Western railway and the said railway as shall, together with the net earnings of the Company, be equal to the interest for the year at a rate of 5 per cent per annum on the share capital of the Company for the time being paid up. They also allow, subject to the conditions mentioned in clause 7, schedule II, of the agreement, Rs. 7,200 and such other actual expenses, for or towards the office expenses, expenses of management and direction of the Company, as are specified in that clause as also all such.

Legal expenses as may be properly incurred by the Company and approved by the Secretary of State or the Government of India and as are debitable to revenue.

- (iii) Terms of working. For management, maintenance, working and use of rolling-stock,
- (iv) Distribution of profits. __ Sthe Government retain 50 per cent of the gross earnings in each half-year of the Mandra-Bhaun railway; the remainder, constituting the net earnings, is paid to the Company.

to the Company.

But should the net earnings of the Company in any year exceed the minimum amount sufficient to pay a dividend of 5 per cent per annum, such excess is to be applied towards the payment of office expenses and expenses of management and direction of the Company for the year referred to under (ii), the balance, if any, being divided equally between the Government and the Company. Provided that if the surplus profits are insufficient to meet the administration charges, the balance will be paid to the Company by the Working Agency out of the stipulated amount retained by the Working Agency as working expenses.

- (v) Rates and fares.—To be sanctioned by the Secretary of State within the maximum and minimum in force on, and the classification of goods to be in conformity with that of, the North Western railway.
- (vi) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Government officials and To be conveyed in all respects as far as

 Government stores.—

 [practicable in the same manner and sub-
 - Government stores.—

 (b) Government bullion and coin, and the persons in charge thereof.—

 (b) Government bullion and coin, and the persons in charge thereof.—

 (c) Fracticable in the same manner and subject to the same regulations and control by the Scoretary of State as the same are conveyed over the North Western railway.
- charge thereof.—

 J railway.

 (vii) Power of the Government to determine contract.—The Government may, by giving 12 months', provided in writing of nurches determine the contract.
- previous notice in writing of purchase, determine the contract either on the 31st day of March 1947 or on the 31st day of March 1947 or on the 31st day of March 1948 or of any subsequent period of 10

Mandra-Bhann railway (5' 6" gauge) - concld.

Main provisions of contract-concld.

years, by paying to the Company in rupees 25 times the average of the yearly net earnings (excluding payments on account of rebate) during the 3 years immediately preceding the date of determination, subject to a limit of 20 per cent in excess of, but not less than, the total capital expenditure of the Company.

The Government may also, by giving 12 months' previous 'notice of special purchase',

determine the contract at any time in the following cases :-

(a) when it is considered desirable to alter the gauge of the railway;
(b) when it is considered desirable to convert the railway into a line of through communication; and

(c) when it is considered desirable to extend the railway and the Company fails to raise additional capital for such extension within 6 months from receipt of the formal requisition from the Government

If the contract be determined 'by notice of special puchase' the Government will pay to the Company in rupees 25 times the average of the yearly net earnings (excluding payments on account of relate) during the 3 years preceding the date of determination or 115 per cent. of the total capital expenditure, whichever may be the greater.

(viii) Power of the Company to surrender contract .- Nil.

(ix) Zerm of contract.—From 15th October 1914 to 30th March 1947 and thereafter as noted under (vii).

Statistics of working-

Year	Mileage open at end of each year.	Total capital outlay, including suspenso, to end of each year, i.e. outlay on (1) lines open, and (ii) lines partly or wholly under construction.	Gross carnings.	Not eurnings.	Porcentage of net carrings on total capital outlay given in column (8).	Rebate and Admi- nistration charges from North Western Railway (+), or share of surplus profits payable to Gov- ernment (-).	Total income (column 5 + or - column 7).	Percentage of total income on total capital outlay given in column (3).	Earnings por mile por week.	Proportion of expenses to cornings.
1	2	3	4	5	6	7	8	9	10	11
3915-16 1916-17 1917-18	Miles. 46.38 46.38	Rs. 21,85,290 23,84,347 28,96,775	Rs. 20,484 1,74,214 1,71,894	Rs. 10,242 87,107 85,947	0:48 3:65 3:58	+ 31,162	Rs. 10,242 1,18,269 1,46,171	Rst. 0'42 4'96 6'10	Rs. 8 72 71	50°00 50°00 50°00

Rajpura-Bhatinda railway (5' 6" gauge)-

Progress in opening -

Sections of railway.								Date of opening.	Miles.	Total.					
Bajpura to Patiala Patiala to Bhatinda	:			:		1		 	:	:	:		2 1-11-84 13-10-89	3 16:00 92:04	
										Тота	L		′		108:04

Details of construction -

Permanent-way .- The line from Rajpura to Patiala is laid with 68-lb. bull-headed steel rails on deodar sleepers, and from Patiala to Bhatinda with 75-lb. flat-footed steel rails on deodar, chir and jarrah sleepers.

Ballast .- The line is ballasted throughout with brick and stone.

Foncing .- The line is fenced between Rajpura and Patiala at station yards, and 100 feet on each side of level crossings between Patiala and Bhatinda.

Curves.—The sharpest curve is of 1,146 feet radius.

Gradients .- The ruling gradient is 1 in 250.

Agreement-

Dated the 30th January 1893, between the Secretary of State and the Patiala Durbar, as to management, maintenance and working of the Rajpura-Bhatinda railway.

Raipura-Bhatinda railway (5' 6" gauge)-concld.

Main provisions of agreement-

- (i) Land.—Land for original construction was provided free of cost by Government in British territory and by the Patiala Durbar in their territory; the cost of that provided by the Durbar after 18th October 1889 (the date on which the agreement came into force) is debited to the capital account.
- (ii) Government aid.—The line, which is the property of the Patiala Durbar, is managed, maintained, stocked and worked by the Government through the agency of the North Western railway as part of its system from the 13th October 1889.
- (iii) Terms of working. ____ } For management, maintenance, provision of rolling-stock and working.
- (iv) Distribution of profits.— 5 the North Western railway retains 55 per cent of the gross earnings (reduced to 52 per cent from 1st January 1904, in accordance with the Government of India, Public Works Department, No. 817 R.T., dated the 5th October 1903, to the address of the Government of the Public Manager, North Western milwey) and the balance is paid to the Patiala Durbar.
- (v) Rates and fares.—To be the same as may, from time to time, be in force on the North Western railway.
- (vi) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high officials and stores both of the Government and of To be carried on the same general conditions the Durbar.—

 and at the same rates as may for the time being
 - (b) Government and Durbar bullion and coin, be in force on the North Western railway.

 and the persons in charge thereof.—
- (vii) Power of the Government to determine agreement .-)
- (viii) Power of the Nurbar to surrender agreement.—
 (ix) Term of agreement.—

 (ix) Term of agreement.—

 The agreement is terminable on the 1st January or the 1st July in any year on six months' pre
 - vious notice in writing being given by either party to the agreement to the other. The Government may also determine the contract at any time on six months' notice in writing, should either the North Western railway, or the Patiala Durbar, fail to observe their respective obligations. Upon the determination of the agreement the North Western railway will give to the Patiala Durbar possession of the railway, all its belongings and moneys then payable to it, after which the Patiala Durbar will indemnify the North Western railway against all debts and liabilities as may have been incurred and then be subsisting on behalf of the Rajpura-Bhatinda railway.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings,	Net carnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8
,,,,,,	Miles.	Re.	Rs.	Rs.		Rs.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1908	107:05 106:45 106:45	68, 52 ,951 68,69 ,492 68,92,203	13,74,351 13,15,393 13,91,108	6,59,689 6,31,388 6,67,731	9:63 9:19 9:68	247 287 251	52·00 52·00 52·00
1911	107:01 108:04 108:04 108:04 108:04 108:04 108:04	69,89,254 70,42,212 70,75,101 71,54,698 72,49,445 72,75,107 78,11,085 75,78,443	16,30,470 20,20,809 4,35,345 19,79,514 13,42,862 16,73,791 18,09,610 21,63,806	7,62,625 9,74,788 2.08,966 9,50,167 6,44,574 8,03,419 8,68,613 10,38,627	11-20 13-84 2-95 13-28 8-89 11-04 11-88 18-70	293 363 810 352 289 296 821 885	52:00 52:00 52:00 52:00 52:00 52:00 52:00 52:00

Sialkot-Narowal railway (5' 6" gauge) --

Date of registration of the Company .- 21st July 1914.

The construction of this line by the North Western railway for the Sialkot-Narowal Railway Company was sauctioned under Railway Board's Notification No. 19, dated the 26th January 1915.

Progress in opening-

	See	tion	of r	ilwa	y.							Date of opening.	Miles.	Total.
•			1									2	3	4
Sialkot to Kila Sobha Singh Kila Sobha Singh to Narowal	:	:		:,	:	•	:	:	:	:		10-11-15 10-1-16	27·16 11 00	
								Ton	AL					38.16

Details of construction-

Permanent-way.—The permanent-way consists of new 60-lb. flat-footed British standard section steel rails laid on new wooden sleepers.

Ballast.—The line is ballasted with shingle with a bottom layer of brick ballast.

Fencing .- The line is unfenced.

Curves .-- The sharpest curve is of 2,865 feet radius.

Gradients .- The ruling gradient is 1 in 500.

Con tract-

Dated the 15th February 1917, between the Secretary of State for India and the Sialkot-Narowal Railway. Company, as to construction, maintenance, management and working of the Sialkot-Narowal railway.

Main provisions of contract-

- (i) Land .- Land in British territory provided by Government free of cost to the Company.
- (ii) Government aid.—The line was constructed by the Government (from funds supplied by the Sialkot-Narowal Railway Company whose property it is) and is managed, maintained, stocked and worked by Government through the agency of the North Western railway as if it were a part of its system.
 - By way of rebate Government allow to the Company in respect of each year, such a sum not exceeding the net earnings of the North Western railway derived from all traffic, except stores for maintenance or working, interchanged between the North Western railway and the said railway, as shall, together with the net earnings of the Company, be equal to the interest for the year at a rate of 5 per cent per annum on the share capital of the Company for the time being paid up. They also allow, subject to the conditions mentioned in clause 7, Scholule II, of the agreement, Rs. 7,200 and such other actual expenses for or towards the office expenses and expenses of management and direction of the Company as are specified in that clause; as also all such legal expenses as may be properly incurred by the Company and approved by the Secretary of State or the Government of India and as are, under the provisions of the contract, debitable to Revenue.
- (iii) Terms of working.— } For management, maintenance, working and use of rolling-stock, (iv) Distribution of profits.— } Government retain the same percentage of gross carnings for which the North Western Railway system including this railway is worked subject to a maximum of 50 per cent of the gross carnings of the said railway, the remainder constituting the net carnings is paid to the Company.
 - Should the net earnings of the Company in any year exceed the minimum amount, sufficient to pay a dividend of 5 per cent per annum, such excess is to be applied towards the payment of the office expenses and expenses of management and direction of the Company stated under (ii), the balance, if any, being divided equally between the Government and the Company. Provided that if the surplus profits are insufficient to meet the Administration charges the difference will be paid to the Company by the working agency out of the stipulated amount retained by the latter as working expenses.

Sialkot-Narowal railway (5' 6" gauge)-concld.

Main provisions of contract-concld,

- (v) Rates and fares.—To be sanctioned by the Secretary of State within the maximum and minimum in force on, and the classification of goods to be in conformity with that of, the North Western railway.
- (vi) Special obligations as to the conveyance of-
 - (a) Mai's, troops, police, high Government officials and To be carried, in all respects as far as prac-Government stores — ticable, in the same manner and subject to be the same regulations and control by the Sec-
 - (b) Government bullion and coin and the persons in charge thereof the North Western railway.
- (vii) Power of the Government to determine co-tract.—Government may, by giving 12 months' previous notice of purchase, determine the contract on the 31st March 1946 or on the 31st March in the last year of any subsequent period of 10 years by paying to the Company in rupees 25 times the average of the yearly note carnings (excluding payments on account of rebate) during the 3 years immediately preceding the date of determination, subject to a limit of 20 per cent in excess of but not less than, the total capital expenditure of the Company. Government may also by giving 12 months' previous notice of "special purchase" determine the contract at any time in the following cases:
 - (a) when it is considered desirable to after the gauge of the railway;
 - (b) when it is considered desirable to convert the railway into a line of through communication; and
 - (c) when it is considered desirable to extend the said railway and the Company fails to raise additional capital for such extension within 6 months from date of receipt of the formal requisition from Government.
 - If the contract shall be determined by notice of "Special purchase" the Government will pay to the Company in runees 25 times the average of the yearly net earnings (excluding payments on account of rebate) during the 3 years preceding the date of determination or 115 per cent of the total capital expenditure of the Company whichever may be the greater.
- (viii) Power of the Company to surrender contract .- Nil.
- (ix) Term of the contract.—From 15th February 1917 to 31st March 1946 and thereafter as noted under (vii).

Statistics of working -

Year.	end of	Total capital ontlay, includ- ing suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross	Net earnings.	Percentage of net earnings on total capital outlay given in column (8).	charges from	Total income.	Percentage of total income on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	ذ	6	7	8	9	10	11
	Milos.	Rs.	Rs.	Rs.			Rs.		Rs.	
1915-16 1916-17 1917-18	88.15 88.15 88.16	21,47,581 27,28,428 27,57,388	27,067 2.18,696 2,25,819	18,533 1,06,848 1,29,590	0°55 8°92 4°70	 + 25,993 + 38,895	13,538 1,32,771 1,67,985	0·55 4·87 6·09	14 107 114	50.00 50.00 42.61

Southern Punjab railway (Main line) (5' 6" gauge)-

Chairman .- Sir Bradford Leslie, K.C.I.E.

Secretary .- E. J. Shepherd, Esq.

Offices.-Egypt House, 36, New Broad Street, London, E.C.

Date of registration of the Company .- 30th July 1895.

Southern Punjab railway (Main line) (5' 6" gauge) -contd.

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	Remarks.
1	2	3	4	5	6
Maintin — Delhi vid Bhatinda to Samasata Independent entrance from Delhi Brewery to Delhi	10-11-97 20-12-09	393·23 0·79	400.03		
Branches— Narwana to Kaithal	*1-2-99	23.38	23:88		For goods
Jind Junction to Jind city	7-8-16	2.52	2:52		traffic. Open
DOUBLE LINE - TOTAL Between Delhi Brewery Cabin Junction and { Delhi Kishengunge.	 1-1-12 1-7-12	 0°19 1°37	1:56	425.92	ed for pass enger traffic—8th March 1899.

Details of construction-

Permanent-way.—The permanent-way consists of 75-lb. flat-footed steel rails laid on transverse sleepers of creosoted pine, deodar, jarrah, sal and douglas fir.

Ballast.-The line is ballasted throughout with brick stone and kunkar.

Fencing .- The line is fenced from Delhi Kishengunge to Naugloi (8:80 miles) only.

Curves .- The sharpest curve is of 1,910 feet radius.

Gradients .- The ruling gradient is 1 in 333.

Contracts (relating to all lines of the Company)-

- Dated the 13th August 1895 (called the principal contract), between the Secretary of State and the Southern Punjab Railway Company, as to the construction, management, maintenance and working of the line from Delhi to Samasata.
- Dated the 4th May 1899 (supplemental to the contract of 1895), between the Secretary of State and the Southern Punjab Railway Company, as to the construction, management, maintenance and working of the Narwana-Kaithal branch.
- Dated the 4th June 1903 (supplemental to the contract of 1895), between the Secretary of State and the Southern Punjab Railway Company, as to the adoption of 1s. 4d. per rupee as the "prescribed" rate of exchange for payments made in England.
- Dated the 4th October 1905 (supplemental to the contracts of 1895, 1899 and 1903), between the Secretary of State and the Southern Punjab Railway Company, as to the construction, management, maintenance and working of the Southern Punjab "Ludhiana" Extension.
- Dated the 14th May 1908 (supplemental to the contracts of 1895, 1899, 1903 and 1905), between the Secretary of State and the Southern Punjab Railway Company, for the purpose of defining the position of the Ludhiana-Dhuri-Jakhal railway in relation to the Southern Punjab railway.
- Dated the 24th June 1909 (supplemental to the contracts of 1895, 1899, 1903, 1905 and 1908), between the Secretary of State and the Southern Punjab Railway Company, as to the construction, management, maintenance and working of the Sutlej Valley railway.
- Dated the 9th July 1912 (supplemental to the contracts of 1895, 1899, 1903, 1905, 1908 and 1909), between the Secretary of State and the Southern Punjab Railway Company, as to the construction, maintenance and working of the Jullundur-Doab railway.
- Dated the 20th January 1913 (supplemental to the contract of 1912), between the Secretary of State and the Southern Punjab Railway Company, as to the inclusion of the Jullundur City-Nakodar branch in the Jullundur-Doab railway.
- Dated the 22nd April 1914 (supplemental to the contracts of 1895, 1899, 1903, 1905, 1908, 1909, 1912 and 1913) between the Secretary of State and the Southern Punjah Railway Company, as to the adoption of the Government Financial year for the preparation of accounts, as to the adoption of the year ending 30th September, instead of that ending 31st December, for purposes of payment of rebate and division of surplus profits and as to the apportionment, if necessary, in respect of time, of the net carnings, in the event of the purchase of the railway by notice of purchase.

Main provisions of contracts (relating to Main line only) -

- (i) Land.—In British territory provided by the Government free of cost to the Company. As to that in the territories of any Native State, the Government undertake to use their influence to acquire it for the Company, as far as possible, on the same terms.
- (ii) Government aid.—The Government manage, maintain, stock and work the railway in all respects as far as practicable as part of the North Western Railway System; and allow to the Company in respect of each half-year, by way of rebate, on the net earnings of the North Western railway from traffic interchanged with the Southern Punjab railway and from all traffic, except coaching traffic, originating and terminating at stations of the North Western railway proper

Southern Punish railway (Main line) (5' 6" gauge)-concld.

Main provisions of contracts (relating to Main line only)-concid.

(including the stations at Delhi and Samasata, respectively, but not including the stations of the Patiala State railway) as shall be sent over the said railway by the North Western railway in exercise of the power conferred upon, or reserved to, it by sub-clause 5 of clause 18 of the contract of 1895, such a sum (not exceeding the net earnings of the North Western railway) from the traffic above specified as together with the Company's net earnings, make up an amount equal to interest for the year at 84 per cent per annum on the actual expenditure charged in the capital account.

- (iii) Terms of working .- For management, maintenance, use of rolling-stock and working, the Government retain 52 per cent of the gross earnings, the remainder being the net earnings of the Company. Such net earnings, together with the rebate referred to under (ii), constitute the Company's net receipts.
- (iv) Distribution of profits.—Surplus net receipts in excess of 3\frac{3}{4} per cent per annum on the total expenditure of the Company in sterling are divisible equally at the close of each year between the Government and the Company, provided that, after the sum of £5,000 has been deducted from the net receipts for administrative expenses in England and in India.
- (v) Rates and fares.—To be fixed by the Government within the maxima and minima for the time being in force on the North Western railway.
- (vi) Special obligations as to the conveyance of.—

 (a) Mails, troops, police, high Government

 To be conveyed at the same rates and under the same rates are the same rates and under the same rates are th (b) Government bullion and coin, and the arrangements as may be in force on State railways. persons in charge thereof .-
- (vii) Power of the Government to determine contract .- Government may, by giving twelve months' previous notice of purchase, determine the contract on the 31st December 1929, or on the 31st December 1934 or on the 31st December of the last year of any subsequent period of ten years except the period expiring on 31st December 1954, by paying to the Company in sterling a sum equal to 25 times the yearly average of the Company's share of the net earnings of the railway during the five years immediately preceding the date of determination, provided that such sum shall not exceed by more than 20 per cent the total capital expenditure of the Company in sterling nor be less than such capital expenditure. Government may also determine the contract on the 31st December 1954 by paying to the Company in sterling a sum equal to the total capital expenditure in storling. But none of the contracts for the Ludhiana extension, Sutlej Valley and Jullundur Doab railways can be determined without the principal contract being determined in like manner and vice versa. -
- (viii) Power of the Company to surrender contract .- Nil.

424 06 424 06

424.06 424.06 424.06

1911

1st qr. of 1913. 1918-14

(ix) Term of contract [if not determined under (vii) or (viii)] .- None specified. Statistics of working-

Year.	Milenge open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines epen, and (ii) lines partly or wholly under cou- struction.	Gross earnings,	Net earnings.	Percentage of not earnings on total capital outlay given in column (8).	Ry. (+), or share of surplus pro- fits payable to the Sec- retary of		Percentage of total income on total capital outlay given in column (3).	Earn porings tion per of ex mile pense to	Remarks.
1	2	3	4	5	6	7	8	9	10 11	12
1897 1898 1999 1900 1901 1902 1903 1904 1905	Miles. \$99.80 \$99.80 423.18 423.93 423.93 424.72 425.33 425.33	Rs. 1,09,08,812 2,23,62,921 2,26,68,262 2,26,57,063 2,25,70,784 2,27,305,660 2,28,27,905 2,29,43,454 2,30,13,696	Rs. 1,61,038 16,29,122 16,11,010 16,36,280 24,96,333 19,41,541 21,59,158 27,47,442 26,40,872	Rs. 77,298 7,81,978 7,78,285 7,89,360 11,98,240 9,31,940 10,86,396 18,18,772 17,47,379	0°39 3°49 3°41 3°48 5°31 4°09 4°54 5°74 7°59	Rs. +19,942 	Rs. 97,240 7,81,978 7,90,603 7,92,922 9,44,965 8,41,967 9,19,782 10,77,955 12,93,297	0°49 3°49 3°48 3°50 4°19 3°69 4°03 4°70 5°62	Rs., 52 52:00 74 52:00 74 52:00 74 52:00 113 52:00 88 52:00 98 52:00 124 52:00 165 52:00	Cripps' award were brought into account in 1901, but in these statis- tics they have been
1206 . 1907 . 1908 . 1909 .	425:33 423:75 423:75 424:06 421:06	2,31,30,148 2,31,79,761 2,33,22,671 2,35,69,932 2,39,18,571	41,67,059 50,37,456 44,44,156 83,15,733 43,21,320	20,00,188 24,17,978 21,83,194 15,91,551 20,74,234	8·65 10·43 9·14 6·75 8·67	-5,76,959 -7,76,213 -6,28,229 -3,56,959 -5,94,776	14,23,229 16,41,735 15,04,965 12,34,192 11,79,458	6·15 7·08 6·45 5·24 6·19	188 52·00 228 52·00 202 52·00 150 52·00 196 52·00	the proper years.

9.93

11.41

2.11

10.85 9.69 11.20

-7.56.864

-1,47,261

-8.45.087

-9,22,29 -7,77,584 -10,22,877

16,57,098

3,79,751

18,58,505 17,65,064 20,11,804

228 267 52.00 52.00

263 240 285 52.00 52.00 52.00

52 00

1·52 7·25 6·72 7·43 6·68 7·52

24,13,962 28,28,764

5,27,012 27,80,795 25,42,648 30,84,181 26,54,729

10,97,941 57,93,393 52,97,183 63,24,292

2,56,22,112 2,62,48,269 2,70,79,223

Southern Punjab railway (Jullundur Doab Extension) (5' 6" gauge)-

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	Remarks.
. 1	2	3	4	5	6
Main line— Jullundur City to Kapurthala Kapurthala to Sultanpur Lodi Sultanpur Lodi to Lohian Khas Lohian Khas to Gidarpindi Gidarpindi to Makhu Makhu to Ferosepore Cantonment Phillaur extension— Lohian Khas to Phillaur	23-6-12 26-8-12 1-1-13 10-1-14 11-9-13	12·72 16·56 4·48 3·82 8·29 26·43	72·30 38·99		*For goods truffic. For passenger traffic—lst Junuary 1918. †For goods traffic. For passenger traffic—lst May 1914.
Jullundur City-Nakodar branch— Jullundur City to Nakodar.	‡30-5-14	18.90	18.30		1 For goods traffic. For passenger tra-
GRAND TOTAL .				180-19	ffle—15th .June 1914.

Details of construction-

Permanent-way.—The permanent-way consists of 78-lb. double-headed rails on Bradford Leslie pattern cast iron plate sleepers, of 75-lb. flat-footed British standard rails on deodar sleepers with bearing plates at bridges, points and crossings and of 60-lb. flat-footed British standard rails on deodar sleepers on goods and minor sidings.

Ballast .- Except the length between Jullundur City and Nakodar, the line is ballasted with sand and

Fencing .- The line is unfenced except round station yards and at level crossings.

Curves .- The sharpest curve is of 1,910 feet radius.

Gradients.-The steepest gradient is 1 in 300.

Contracts-

As noted under Southern Punjab railway (Main line).

Main provisions of contracts-

As noted under Southern Punjab railway (Main line) except as follows :-

- (i) Land. Land in British territory provided by the Government free of cost, and that in Native State (not being waste land) on payment of compensation by the Company, unless the Durbar waive their claim to such compensation.
- (ii) Government oid.—The Government manage, maintain, stock and work the railway in all respects as far as practicable as a part of the North Western railway system and allow to the Company as far as practicable as a part of the North Western railway system and above to the Company in respect of this line, for each year, by way of rebate, on the net earnings of the North Western railway, such a sum as together with the net earnings of the Jullundur Doab railway will be equal to interest for such year at the rate of 4½ per cent on the capital expenditure of the Company on the Jullundur Doab railway as charged to the Capital Account, provided that if in any year the rebate so ascertained shall exceed the aggregate of the following two sums :-
 - (a) net carnings of the North Western railway from its traffic interchanged with the Jullundur Doah railway and between the Jullundur Doab railway and foreign lines passing by way Doab railway and between the Julindur Doab railway and foreign lines passing by way of the North Western railway and from traffic except ceaching traffic, originating and terminating at stations on the North Western railway proper (including the stations at Delhi, Samasata, Ferozepore, Ludhiana, Kasur, and Lodhran, Julindur and Phillaur and including also stations on the Amritsar-Parti railway and stations on any lines joining the North Western railway at Julindur or Phillaur from the North or the East) and sent over the Juliundur Deab railway, other than the traffic which is subject to rebate under clause 23 of the contract of 1895 or clause 12 of the contract of 1905 or clause 13 of the contract of 1909 or under all such clauses,
 - (b) such surplus of net earnings of the North Western railway in respect of traffic which is subject to rebate under clause 23 of the contract of 1895 or clause 12 of the contract of 1905 or clause 13 of the contract of 1909 or under all or any of such clauses, as shall remain after satisfying claims under such clauses or either of them (if any),

then the rebate for such year shall be reduced to an amount equal to the aggregate of the said

- (iii) Terms of working.—For management, maintenance, use of rolling-stock and working, Government retain 52 per cent of gross carnings, the remainder being the net earnings of the Company. Such net earnings together with the rebate referred to under (ii) above constitute the Company's net receipts.
- (iv) Distribution of profits. Surplus net receipts in excess of 41 per cent per annum on the total capital expenditure of the Company are divisible at the close of each year between the Company and the Government in the proportion of 1th to the Company and 1ths to the Secretary of State.

Southern Punjab railway (Jullundur Doab Extension) (5' 6" gauge)—concld. Statistics of working -

Yoar.	open at end of	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	carnings.	Net earnings.	given in	Rebate from North Western railway (+), or share of surplus profits payable to the Secretary of State in Eng- land().	Total income.	Percentage of total income on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	£	8	4	5	6	7	8	9	10	11
1912 1st qr.	Miles: 28:25	Rs. 1,01,82,301	Ra, 8,129	Rs. 3,902	0.03	Rs	Rs. 3,902	0.03	Rs. 13	52.00
of 1913. 1918-14. 1914-15. 1915-16. 1916-17.	82.73 102.97 183.48 180.19 130.19	1,10,18,745 1,32,49,258 1,31,32,805 1,82,91,134 1,82,40,677	29,673 2,62,639 4,49,006 4,52,087 4,63,283	14,243 1,26,067 2,15,528 2,17,002 2,22,376	0.13 0.95 1.64 1.63 1.68	+17,649 +1,72,394 +3,52,781 +3,81,506 +8,72,278	31,892 2,98,461 5,68,304 5,98,508 5,94,654	0°29 2°25 4°38 4°50 4°49	70 60 65 66	52.00 52.00 52.00 52.00
1917-18.	13-)-19	1,32,44,224	4,18,204	2,00,738	1.21	+ 3,95,260	5,95,998	1 50	68 62	52.00 52.00

Southern Punjab railway (Ludhiana extension) (5' 6" gauge)-

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.	Remarks.
1	2	3	4	5
Ludhiana to Forozeporo	*10-6-05	76'68		* For goods traffic. Opened for passenger traffic—1st
Ferozepore to MacLeod Ganj	10-2-06	75 ·8 6		for passenger traffic—1st October 1905.
Total			152.04	

Details of construction -

Permanent-way.—The permanent-way consists of 75-lb. flat-footed steel rails on Australian jarrah, Dauglas fir and deodar sleepers.

Ballast. - The line is ballasted with brick and stone.

Fencing.—Only station yards, and short lengths on either side of all level crossings where gates and gate lodges have been provided, are fenced.

Curres .- The sharpest curve is of 1,910 feet radius.

Gradients.-The ruling gradient is 1 in 400.

Contracts-

As noted under Southern Punjab railway (Main line).

Main provisions of contracts-

As noted under Southern Punjab railway (Main line) except as follows :-

- (i) Government aid.—The Government allow to the Company, in respect of each half-year, a rebate on the net earnings of the North Western railway derived from—
 - (a) the traffic interchanged between the North Western railway and this railway, whether directly or by way of the other railways of the Company;
 - (b) all traffic, except coaching traffic, originating and terminating at stations of the North Western railway proper (including the stations at Delhi, Samasata, Ferozepore and Ludhiana, respectively) which shall be sent over this railway by the North Western railway in exercise of the power conferred upon, or reserved to, it by sub-clause 5 of clause 18 of the contract of 1895; and
 - (c) coaching traffic between Ludhiana and Ferozepore over and above the average earnings of the North Western railway from such traffic during the corresponding half-year in the five years preceding the opening of this line.

Such rebate to be of an amount which shall not exceed the amount of the said net earnings, and which, when added to all allowances by way of rebate made to the Company under the provisions of the contracts of 1895 and 1899 in respect of the same half-year, shall not exceed the net earnings of the North Western railway from all traffic interchanged with or sent over any part of the Company's lines (including this line), but which, subject as aforesaid, shall extend to an amount sufficient, with the net earnings of this line, to make up interest at the rate of 5 per cent per annum on the capital expenditure of the Company in respect of this line as charged in the capital account.

Southern Punjab railway (Ludhiana Extension) (5' 6" gauge) - concid.

Main provisions of contracts-conold.

Provided that the Company shall not in any half-year be entitled, under clause 12 of the contract of 1905, to any rebate in respect of traffic which is also the subject of rebate under clause 23 of the contract of 1895 and if to the extent to which in that half-year the sum required to make up the contract of 1999 and it to the extent of which in substantiver has sun required to make up one earnings of the Company to 31 per cent under clause 23 of the contract of 1996 would have been insufficient for that purpose without taking into account such traffic or some part thereof, but any surplus of net carnings of the North Western railway in respect of traffic which is subject to rebate both under the first part of clause 12 of the contract of 1905, and also under the contract of 1895 which shall remain after satisfying any claim under the contract of 1895, shall nevertheless be applicable to meet any claim of the Company to rebate under clause 12 of the contract of 1905.

(ii) Distribution of profits.—Surplus net receipts in excess of 5 per cent per annum on the Company's total capital expenditure in respect of the extension are divisible at the close of each year in the proportion of 1th to the Company and 2ths to the Government.

Statistics of working-

	02 1102	8								
Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net enrnings.	capital outlay given in	Rebate from North West- ern railway (+), or share of surplus profits payable to the Secretary of State in England(-).	Total income.	Percentage of total income on total capital outlay given in column (3).	Earn- ings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10	11
1905 .	Miles. 77.05	Rs. 70,09,669	Rs. 73,332	Rs. 35,200	0.20	Rs. + 10,500	Rs. 45,700	0.65	Rs. 33	52.00
1906 . 1907 . 1908 . 1909 .	155.05 152.04 153.04 153.04	79,33,781 83,43,814 87,92,087 89,06,182	6,29,557 8,98,142 8,31,931 7,88,692	3,02,187 4,81,108 3,99,327 3,78,573	3·81 5·17 4·54 4·25	+ 56,692 15,147 + 29,270 + 65,713	3,58,879 4,15,961 4,28,597 4,44,286	4·52 4·99 4·87 4·98	78 113 105 100	52:00 52:00 52:00 82:00
1910	152.04	89,40,892	10,03,716	4,81,784	5.89	-24,458	4,57,826	5.11	127	52.00
1911 . 1912 .	152.04 152.04	89,83,708 90,15,837	10,90,618 11,77,568	5,23,497 5,65,233	5·82 6·26	-56,014 -84,060	4,67,483 4,81,173	5·20 5·34	138 149	52·00
1st qr. of 1913 . 1913-14 . 1914-15 .	152.04 152.04 152.04	90,16,169 91,86,178 92,45,584	2,88,228 18,47,598 12,04,864	1,38,349 6,46,847 5,78,334	1·53 7·04 6·25	-19,327 -1,41,400 -87,210	1,19,022 5,05,447 4,91,124	1.82 5.50 5.91	146 170 152	52:00 52:00 52:00
1915-16 . 1916-17 . 1917-18 .	152.04 152.04 152.04	92,71,455 92,90,490 93,20,624	18,50,601 13,06,790 12,80,758	6,00,289 6,27,260 6,14,763	6·47 6·75 6·59	-1,02,821 -1,21,828 -1,70,099	4,97,468 5,05,432 4,44,661	5·37 5·44 4·76	157 165 162	52.00 52.00 52.00

Southern Punjab railway (Sutlej Valley Extension) (5' 6" gauge)-

This line, from Kasur to I odbran, which was opened on the 6th July 1910, was closed and dismantled during the year 1917-18, its materials being required by Government in connection with the prosecution of the War.

Contracts-

As noted under Southern Punjab railway (Main line).

Main provisions of contracts-

As noted under Southern Punjab railway, (Main line), except as follows :-

(i) Government aid .- The Government allow to the Southern Punjab Railway Company, for each halfyear, by way of rebate, on the net earnings of the North Western railway, such a sum (not exceeding the amount of such not earnings of the North Western railway) as, together with the net carnings of the Company in respect of this railway, will be equal to interest at 4½ per cent per annum on the Company's total capital expenditure on the Sutlej Valley railway,

provided that if in any year the rebate so ascertained shall exceed the aggregate of—

(a) the net earnings of the North Western railway from its traffic interchanged with the Sutlej

Valley railway and from traffic, except coaching traffic, originating and terminating at

stations on the North Western railway proper (including the stations at Delhi, Samasata,

Ferozepore, Ludhiana, Kasur and Lodhran), and sent over the Sutlej Valley railway,

other than the traffic which is subject to rebate under clause 23 of the contract of 1895

or clause 12 of the contract of 1905 or under both these clauses, and

(b) such surplus (if any) of net earnings of the North Western railway in respect of traffic which is subject to rebate under clause 23 of the contract of 1895 or clause 12 of the contract of 1905 or under both these clauses, as shall remain after satisfying claims under such clauses er either of them (if any), then the rebate for such year shall be reduced to an amount equal to the aggregate of the

said two sums.

(ii) Distribution of profits.—Surplus net receipts in excess of 4½ per cent per annum on the Company's total capital expenditure on the Sutlej Valley railway are divisible at the close of each year in the proportion of 4th to the Company and 4ths to the Government.

Southern Punjab railway (Sutley Valley Extension). (5' 6" gauge) -concld.

Statistics of working-

Year.	open at end of each	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net carnings.	outlay	Bebate from , North Western railway (+), or share of surplus profits payable to the Secretary of State in Eng- land (—).	Total income.	Percentage of total income on total capital outlay given in column (8).	Harnings per mile per week.	Proportion of expenses to earnings.
	2	8	4	5	6	7	8	9	10	11
	Miles.	Ps.	Be	Rs.		Re.	Rs.		Re	
1910 .	209:16	*1,54,94,559	2,89,668	1,89,041	0.90	+ 1,85,209	3,24,250	2.14	54	52.00
1911 .	208.19	1,52,17,748	5,66,480	2,71,914	1.79	+4,03,911	6,75,825	4:44	52	52.00
1912 .	208-19	1,52,28,474	5,17,652	2,48,473	1.63	+ 4,39,385	6,87,858	4.2	48	52.00
1st qr. of	1							1	l	İ
1918 .	208-19	1,52,33,176	1,80,630	62,702	0.41	+1,08,963	1,71,665	1.18	48	52.00
1913-14 .	908 19	1,52,73,939	6,77,949	3,25,415	2.1:3	+ 8,60,743	6,86,158	4.49	68	52.00
1914-15 .	208.19	1,52,98,482	6,00,181	2,88,087	1.88	+ 3,99,533	6,87,620	1.49	55	52.00
1915-16 .	208'19	1,52,63,858	6,40,764	3,07,566	2 01	+ 3,78,208	6,85,774	4.49	59	52 00
1916-17 .	208.19	1,52,88,153	5,76,876	2,76,901	1.81	+4,10,268	6,87,169	4:49	58	52.00
1917-18 .		1,53,12,852	3,16,818	1,52,073	0.99	4 + 5, 36,587	6,88,660	4.20	1 49	52.00

Jacobabad-Kashmor railway (2' 6" gauge) --

Date of registration of the Company .- 30th April 1913.

The construction of this line by the Upper Sind Light Railways, Jacobahad-Kashmor Feeder Company Limited was sanctioned under Railway Board's Notification No. 282, dated the 16th October 1913.

Progress	in o	peni	ing-
----------	------	------	------

	Sect	ion (of rai	lway								Date of opening.	Miles.	Total.
			1								_	3	3	4
Jacobabad to Kashmor .	•	•	•		•	•	•	•	•	•	•	1-12-14	76:70	78.70

Details of construction-

Permanent-way. - The permanent-way consists of 30-lb, flat-footed British standard steel rails on sall alcepers.

Ballast. The line is not ballasted.

Prescing.—The line is unfenced, except round Jacobabad station yard.

Curves.—The sharpest curve is of 573 feet radius.

Gradients.-The ruling gradient is 1 in 400.

Dated the 29th July 1916, between the Secretary of State and the Upper Sind Light Railways, Jacobabad-Kashmor Feeder Company, Limited, as to the construction, maintenance, management and working of the Jacobabad-Kashmor railway.

Railway Board's letter No. 225-2547-P., dated the 5th August 1915, sanctioning the raising of an additional capital of Rs. 2 lakhs for the completion of the Jocobabad-Kashmor railway.

Main provisions of contract
(i) Land.—Land in British territory provided by Government free of cost.

- (ii) Government aid .- By way of rebate the Government allow to the Company, in respect of each year, such a sun, not exceeding the not earnings of North Western railway derived from all traffic (except stores) interchanged between the North Western railway and the said railway as shall, together with the net earnings of the Company, be equal to the interest for the year at a rate of 5 per cent per annum on the actual expenditure charged in the Capital Account.

 Government also allow Rs. 7,500 on account of office expenses and expenses of managment and direction of the Company, as also all such legal expenses as are properly incurred by the Company and approved by the Secretary of State or the Government of India, and as are under the provisions of the contract debitable to Revenue.
- For management, maintenance, and working Government retain 45 (iii) Terms of working .-
- (iv) Distribution of profits.—) constituting the net earnings of the Company in any year exceed the minimum amount sufficient to pay a dividend of 5 per cent per annum, such excess is to be applied towards the payment of expenses and expenses of management and direction of the Company for the year up to a limit of Rs. 7,500, the balance, if any, being divided equally between Government and the Company. Provided that if the surplus profits are insufficient to meet the administration charges, the difference will be paid to the Company by the working agency out of the stipulated amount retained by the latter as working expenses.
- (v) Rates and fores.—To be sanctioned by the Secretary of State within the minimum and maximum in force on, and the classification of goods to be in conformity with that of, the North Western railway.

Includes Re. 3,24,250 adjusted in 1911. † Including Rs. 1,59,000 received from the Military Department as compensation for loss of

Jacobabad-Kashmor railway (2' 6" gauge) -contd.

Main provision of Contract-contd.

(vi) Special obligations as to the conveyance of .-

(a) Mails, troops, police, high Government officials) and Government stores .-

To be carried in all respects as far as practicable in the same manner and subject to the same regulations and Government bullion and coin, and the persons in same are carried on the North Western

charge thereof. — J railway.

(vii) Power of the Government to determine contract.—The Government may, by giving 12 months' previous notice of purchase, in writing, determine the contract either on the 31st March 1945 or on

the 31st March in the last year of any subsequent period of 10 years by paying to the Company in rupees, 25 times the average of the yearly net earnings (excluding payments on account of rebate) during the 3 years immediately preceding the date of determination subject to a limit of 20 per cent in excess of, but not less than, the total capital expenditure of the Company. The Government may also, by giving 12 months' previous notice of "special purchase," determine the contract at any time in the following cases:—

When it is considered desirable to alter the gauge of the railway.

When it is considered desirable to convert the railway into a line of through communication.

When the Secretary of State desires to extend the said railway (without altering the gauge or making the line part of a through route) and the Company is unable or unwilling to supply the necessary capital for such extension.

If the contract shall be determined by notice of "special purchase," the Government will pay
to the Company in rupees 25 times the average of the yearly net earnings (excluding payments on account of rebate) during the 3 years preceding the date of determination or 115 per cent of the total capital expenditure, whichever may be the greater.

(viii) Power of the Company to surrender contract.-Nil.

(ix) Term of contract. - From 29th July 1916 to 31st March 1945 and thereafter as noted under (mii).

Statistics of working-

Year.	end of each year.	Total capital outlay, including suspense, to end of cach year, i.s., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	total capital outlay given in	Rebate and Administrative eharges from North Western railway (+), or share of surplus profits payable to the Secretary of State in Eugland (—).	Total income.	Percentage of total income on total capital ontlay given in column (3.)	Earnings per mile per week.	Proportion of expenses to carnings.
1	2	3	4	5	6	7	8	9	10	11
1914-15 . 1915-16 . 1916-17 . 1914-18 .	Miles. 76:70 76:70 76:70 76:70	Rs. 20,99,487 22,21,742 22,57,892 21,84,818	Rs. 21,420 1,36,347 1,49,121 1,34,280	Rs. 11,781 74,991 67,104 78,851	0·56 3·38 2·97 ,3·38	Rs. + 26,442 + 30,127 + 60,373	Rs. 11,761 1,01,433 97,281 1,34,227	0:56 4:56 4:80 6 14	Rs. 16 34 37 34	45'00 45'00 45'00 45'00

Kalka-Simla railway (2' 6" gauge)-

The railway was constructed by, and at the cost of, the Delhi-Umballa-Kalka Railway Company, On the representation of the Company it was decided to purchase the Company's interest in the line. This was effected by the payment of £300,000; the Secretary of State waiving all claims to arrears of unpaid interest on the advances, viz., Rs. 1,16,47,512, made to the Company. The purchase of the line by the State was effected from 1st January 1906; but the Company continued to work it under the direct orders of the Railway Board up to the 31st December 1906. It was made over to the North Western railway administration with effect from the 1st January 1907.

Progress in opening

Sect	ione of	f rail	way.						Date of opening.	Miles.	Total.
	1								2	3	4
Kalka to Simla station	ice .		·	:	:	:	:	:	9-11-03 2 7-6 -09	59°\$4 0° 4 8	
				 		Гота	L,				59:92

Details of construction -

Permanent-way. - The permanent-way consists of 62, 60 and 411-lb. flat-footed steel rails on wooden sleepers. The 411-lb. rails are being renewed with 60-lb. and 62-lb. flat-footed rails.

Ballast .- The line is ballasted with stone.

Fencing. - The line is fenced only along the Kalka camping ground and through the outskirts of the town of Kalka.

Curves .- Most of the curves are compound, the limiting radius being 120 feet.

Gradients .- The ruling gradient is 1 in 83.

Kalka-Simla railway (2' 6" gauge) -concld.

Contract-

Nil .- The line is owned and worked by the State.

Rates and fares .- May be varied within the limits of certain fixed maxima and minima subject to certain special conditions regarding charges for tunnels.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 88 to the Railway Administration Report for 1907).

Year.	open at end of each year.	Total capital outlay, includ- ing suspense, to end of each year i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (5).	Interest.	Gain or loss to the State pertaining to each year.		Proportion of expenses to exraings.	Remarks.
1	2	8	4	5	e	7	. 8	9	10	11
1908 1909 1910 1911 1912 1st qr. of 1913 1913-14 1914-15 1918-16 1918-17	Miles. 59:44 59:92 59:92 59:92 59:92 59:92 59:92 59:92 59:92 59:92 59:92	1,97,61,852 1,98,48,191 1,99,24,926 1,97,94,816 1,97,94,816 1,97,56,575	ka. 9,64,623 9,81,289 10,80,967 11,54,432 12,59,823 2,61,535 13,84,402 19,82,281 13,47,695 15,53,676 16,12,934	Re. 2,90,181 2,99,679 36,042 3,37,867 3,95,164 41,358 4,48,750 7,41,912 7,27,659 7,42,212 8,28,987	1.58 1.27 0.18 1.71 2.00 0.21 2.25 3.76 3.76 4.16	Rs. 5,67,129 5,81,632 6,03,907 6,22,427 6,25,180 1,56,961 6,28,187 7,42,417 6,39,799 6,07,566 6,40,000	Rs. -2,76,988 -3,44,953 -5,67,865 -2,84,560 -2,30,016 -1,15,608 -1,79,487 +99,495 +87,860 +1,84,646 +1,83,957	Ra. 312 316 331 370 404 386 428 412 483 498 518	69·92 75·58 96·50 70·78 68·68 84·19 66·87 42·14 46·00 52·23 48·92	The decrease in not carnings in 1910 is mainly due to renewals of permanent-way with 69-lb. rails and charged for special renewals amounting to Es. 2,04,056.

Kohat-Thal railway (2' 6" gauge)-

Originally the line was on the 2'6" gauge from Khushalgarh, from which place to Kohat it was converted into 5'6" gauge and merged in the North Western railway proper in 1908.

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
1	8	3	4
Kohat to Thal	1-4-03	, 61°7 5	, 61.75

Details of construction-

Permanent-way .- The line is laid partly with 411-lb. and partly with 35-lb. rails, on wooden sleepers.

Ballast,-The line is ballasted throughout with broken stone.

Fencing.—The line is unfenced.
Curves.—The sharpest curve is of 239 feet radius.

Gradients .- The ruling gradient is 1 in 100.

Contract-

Nil.—The line is owned and worked by the State.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907).—

	.,						
Year.	Mileage ope at end of es year.		Gross carnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to carnings.
1	2	8	4	5	6	7	8
1908 . 1909 . 1910 .	. 61	es. Ba. 75 42,64,510 75 42,68,969 75 42,77,931	Rs. 1,06,963 1,04,952 1,03,605	Rs. -8,50,398 -2,34,978 -1,36,316	:::	Ra. 38 88 82	427:59 323:89 231:57
1911 . 1919 .		.75 48,16,896 -75 48,99,955	1,14,485 1,29,442	-1,67,880 -1,61,586		86 88	246·64 231·97
1913 1913-14 1914-15 1915-16 1916-17 1917-18	61 61 61	1.75 44,08,760 -75 43,70,614 -75 48,90,461 175 44,14,291 -75 42,50,404 -76 42,79,892	36,847 1,86,223 1,40,484 1,84,518 1,76,997 1,89,671	-18,648 -6,799 -58,750 -29,941 7,010 -18,144	 0-16	38 48 44 57 85 57	144.24 104.92 141.82 (15.85 96.02 109.93

Nowshera-Durgai railway (2' 6" gauge)-

Progress in opening-

	۶	e oti c	on of	railw	ay.				Date of opening.	Miles.	Total.
	 			1		 	 	 	 2	3	4
Nowshers to Durgai									1-1-01	40:4 0	40*40

Details of construction-

Permanent-way.—The permanent-way consists of 35-lb. flat-footed steel rails laid partly on wooden and partly on steel sleepers.

Ballast .- The line is ballasted throughout with broken stone.

Fencing .- The line is unfenced.

Curves.—The sharpest curve has a radius of 250 feet.

Gradients .- The ruling gradient is 1 in 100.

Contract-

Nil.-The line is owned and worked by the State.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907).--

Y car.	Mileage open at end of each year,	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gress earnings,	Net carnings.	Percentage of not carnings on total capital outlay given in column (3).	Earnings per mile per woek.	Proportion of expenses to carnings.
1 .	2	3	4	5	6	7	8
908 909 910	Miles. 40·25 40·25 40·25	Rs. 25,99,122 25,92,909 25,93,397	Rs. 1,98,567 2,04,475 2,25,044	Rs. 28,729 5,747 20,291	1·10 0·23 1·12	Rs. 95 98 107	85·53 97·19 86·98
911 912 : .	40°25 40°25	26,01,859 26,16,081	2,29,148 2,43,40 4	37,536 34,514	1·44 1·84	109 116	83.62 85.82
913-14 913-14 914-15 915-16 916-17 917-18	40°25 40°25 40°25 40°25 40°40 40°40	26,24,124 26,30,567 26,59,785 26,59,384 26,68,370 26,70,256	58,354 2,64,088 2,63,500 3,27,166 2,93,801 2,89,402	5,024 75,928 90,778 1,02,400 97,074 1,11,166	0·17 2·88 3·41 8·85 3·64 4·15	111 126 126 156 141 138	91°39 71°25 65°55 68°70 60°96 61°59

Trans-Indus (Kalabagh-Bannu) railway (2' 6" gauge)-

Progress in opening-

Sec	ion	of ra	ilway	7.					Date of opening.	Miles.	Total.	Grand total.
	• · · ·	_1							2	3	4	5
Main Lins- Kalabagh to Bannu								•	15-6-18	88 91	88.91	
Tank Extension — Laki via Pezu to Tank							٠		1-5-16	46:47	45.47	
				,	3ran	D TO	TAL			•	46:47	135:38

Trans-Indus (Kalabagh-Bannu) railway (2' 6" gauge)-concld.

Details of construction-

Permanent-way.—The permanent-way consists of flat-footed British standard section, steel rails, 50 lbs. to the yard on the main line and on the ghat section of the Laki-Pezu line, and 40 lbs. to the yard on the remainder, on deodar sleepers.

Ballast.—The main line is partly unballasted and the remainder is ballasted with sand and stone. The ghat section of the Laki-Pezu line is ballasted with shingle and the remainder with sand. The line between Pezu and Tank is ballasted with sand, except at dips and bridge approaches where stone is used.

Fencing.—The line is unfenced, except in Tank station yard and the side of the line next to the public road-way, between Gambila and Bannu.

Curves.—The sharpest curve, which is on the Laki-Pezu section, has a radius of 404.5 feet.

Gradients.—The ruling gradient is 1 in 100 between Kalabagh and Bannu and 1 in 45 between Luki and Tank.

Contract-

Nil .- The line is owned and worked by the State.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including susponse, to end of each year, i.e., outlay on (i) lines open and (ii) lines pirtly or wholly under construction	Gross earnings.	Net earnings.	Percentage of not earnings on total capital outlay given in column (3).	Proportion of expenses to carnings,	
1	2	3	4	5	6	7 7	8
1913-14 1914-15 1915-16 1916-17 1917-18	Miles. 88:91 88:91 88:91 135:39 135:38	68,27,036 61,82,561 92,27,509 97,62,951 1,07,54,744	R ₈ , 2,18,035 3,45,918 3,61,243 4,21,571 6,63,182	Rs. 46,490 16,416 34,678 19,450 75,533	0.20	Re. 39 75 78 61 94	78*68 104*75 109*60 95*39 111*39

Larkhana-Jacobabad railway (5' 6" gauge)-

Date of registration of the Company. -1910.

The construction of this line by the Sind Light Railway Company was sanctioned under Railway Board's Notification No. 452-P., dated the 9th March 1916.

Progress in opening-

Section of railway.	Pate of opening.	Miles	Total.
1	2	3	.4
Larkhana to Jacobabad (sanctioned on 9th March 1916)		75.45	75'45

OUDH AND ROHILKHAND RAILWAY SYSTEM.

Lines comprised in the system.—The Oudh and Rohilkhand railway system is made up of-

(c) Cawnpore-Burhwal link (8" 3\" gauge)	les. 1·95 2·04
Home line over Foreign lines:— Ghaziabad to Delhi, East Indian railway, granted for passenger and goods trains but exercised for the former only.	0.31
Ghaziabad to Delhi, East Indian railway, granted for passenger and goods trains but exercised for the former only.	4.33
former only	
	3·(0 2·75
Foreign lines over Home line:—	5.75
7,100	1.63 1.63
	5·19
Burhwal, 35:31 miles (Cawnpore-Barhwal link, 3' 32' gange). Bearace Cantonment to Bonares City Rehilkund and Kumaon railway, over Ramganga bridge between Barcilly and Basharat- ganj. Dalpatpur and Moradabad or Dalpatpur and Moradabad	2:18 2:18 2:52 2:40

Oudh and Rohilkhand railway (5 '6" gauge)-

The Oudh and Rohilkhand railway was acquired by the State from the late Guaranteed Company on the 1st January 1889.

A tramway constructed at the expense of Messrs. Carew and Company connects the Rosa Sugar factory with Rosa station on the Oudh and Rohilkhand railway. This tramway is 3.25 miles long and is worked by cattle power. It is used for goods traffic only.

Date of registration of the late guaranteed Company .- August 1867.

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	Remarks.	
1	2	3	4	5 *	6	
Main line-						
Moghal Sarai to mile 3.88 Mile 298, south of the Dufferin bridge, to Kashi (Benares Ganges) station.	22-12-62 1-10-87	3:98 4:25				
Kashi (Benares Ganges) station to Benares	18-6-83	1.20				
Benares Cantonment to Rae Bareli	4-4-93	138:78		1		
Rae Pareli to Macknow	15 10-93	49.03				
Lucknow to Sandila	1-2-72	10:21		1		
Sandila to Hardoi	15-7-72	33.00				
Hardei to Shahjahanpur	1-3-73	39.00				
Shahjahanpur to Pitambarpur	8-9-73	32.09 13:00		1	1	
Pitambarpur to Bareilly Bareilly to Moradabad (chord line via	1-11-73 8-6-94	#56:07			Of this, 0:49 mile	
Rampur).	8-11-34	-5001		,	over the Ram-	
Moradabad to Nagina	8-10-81	47:25		1	ganga bridge	
Nagina to Najibabad	1-4-85	13.70			(Moradabad) is of	
Najibabad to Seharanpur	1-1-86	58.25	•		mixed (5' 6" and	
·			519:70	i	3' 3 1") gauge.	
Benarcs-Lucknow loop	i			į.		
Benares Cantonment to Shahgani	5-1-71	56.03		!	1	
Shahganj to Bilwai	1-5-74	7:00			1	
Bilwai to Malipur	18-4-71	900				
Malipur to Akbarpur	2·3·7↓ 10·6·73	12:00 38:24				
Akbarpur to Fyzabad Fyzabad to Bara Banki	25-11-72	61 97		1		
Bara Banki to Lucknow Block hut	1.4-72	14.43				
Dara Danki to Luckbow block nut	1.4.17	1440	198:67		1	
Bareilly-Moradabad loop -		1	200 111			
Bareilly to mile 5	22-12-73	+5.00			† Of this, 1.17 miles	
Mile 5 to Aoula	1-11-73	11:00			over Ramganga	
Aonla to Chandausi	10-6-73	27.00			bridge (Bareilly)	
Chandausi to Moradabad	28-10-72	27:50			are of mixed 5'6"	
			70.50		and 3' 32") gauge.	
Carried over	i	;		788:87	l	

OUDH AND ROHILKHAND RAILWAY SYSTEM-contd.

Oudh and Rohilkhand railway (5' 6" gauge)-contd.

Progress in opening = concld.

Sections of railway.	Date of opening.	Miles.	Tí		
1	2	3			ı
Brought forward .				788-87	
Branches on the main line					
Lucknow to Cawnpore	23-4-67	42.00			
the East Indian railway at Cawnpore Balaman-Madhogan; branch —	15-7-75	3:22	45-22		
Baiamau to Madhogani	20-12-03	14:20	14.20		
Madhoganj-Auhadpur extension — Madhoganj to Bilgram Bilgram to Auhadpur	15-11-09 9-3-10	7·62 9· 4 3			- Address of the Control of the Cont
Balamau - Sitapur branch — Balamau to Misrikh Misrikh to Sitapur	9-3-10 5-4-10	22:44 14:32	17:05		
Rosa-Sitapur branch - Rosa to Sitapur City	18-6-10	49.22	36.76		,
Sitapur City to Sitapur Cantonment	{ 2-2-11 6-4-14	2.66 0.77	•		
Moradabad-Ghaziabad branch— Moradabad to Gajroula Gajroula to Ghaziabad	1-4-00 25-11-00	33:40 58:37	52-65		
Hapur-Meerut branch — Hupur to Meerut	7-11-04	18:09	86*77		
Kotdwara branch - Najibabad Junction to the right bank of	24-12-96	15:19	18.09		
the Koh river opposite Kotdwara Hardwar branch— Lhaksar Junction to the left bank of the		13 13	15.19		
Ganges Canal near Jawalapur Loft bank of the Ganges Canal near Jawala-	1-1-86	13.53			
pur to Hardwar Branches on Benares-Lucknae loop— Allahabad-Fysabad branch—	20-8-86	3:53	17:06		
Fyzabad to Sultanpur Sultanpur to Siwait	1-2-04 1-7-03	35:50 *47:05			*73
Siwait to Phaphamau Phaphaman to Allahabad	20-1-04 1-1-05	3·27 7·00			*Excluding 2.45
Allahabad-Jaunpur branch— . Phaphamau tô Mariahu	18-6-06	47:51	92.82		tabgarh and Chil- bila, which is a par of the main line.
Mariahu to Zafarabad	1-1-07	10.67	58.18		ing in into
Bara Banki to Bahramghat	20-11-72	†21.52	21.52		+ CEAL:- 11
Branches on the Barvilly-Moradabad loop - Aligath branch-					† Of this the length from Burhwal to Bara Banki, 16:79
Chandausi to Rajghat Narora	28-10-72 1-2-72	30·48 30·12	10.00		miles, is of mixed (5' 6" and 3' 34")
Phaphaman to Rae Bareli	2-11-11 2-11-11	67·60 15·15	60.60		gauge.
Unchalar to Unao Gajraula-Chandpur Siau branch —	1-2-12	69.41	152-19		
Gajroula to Chandpur Siau	7-6-11	21.88	21.88		
Akbarpur-Tanda Branch— Akbarpur to Tanda	28-10-12	10.72	10.72	720.90	
Total 5' 6" gauge				1,509.77	
S' 32" gauge—Benares City branch — Benares Cantonment (Oudh and Robil-					1
khand) to Benares City (Bengal and North Western)	1-4-99	2:18	2.18		
				2.18	
TOTAL OPEN MILE GE				1,511.95	
Double Line-	11.10.00				•
Lucknow Blockhut to Kakori Moghal Sarai to Bechupur Bechupur to right bank of Dufferin Bridge	11-10-09 21-4-13 21-12 12	11.62 1.24 4.19			
Kashi to Benares Cantonment	5-3-13 11-5-14	2·82 1·35			
	1		21.22		
/	}	•			}

OUDH AND ROHILKHAND RAILWAY SYSTEM-contd.

Ondh and Rohilkhand railway (5' 6" gauge)-concld.

Details of construction-

Permanent-way.—The main line, which was laid with 75-lb. flat-footed steel rails on cast-iron pot sleepers, is being relaid with 90-lb. flat-footed steel rails, British Standard, on wooden sleepers and about 926 miles, including double line, are practically complete. The pot sleepers in the main line have all been replaced by wooden sleepers. The Benares-Lucknow loop is laid with 75-lb. flat-footed steel rails on replaced by wooden steepers. The Balance-Jackstow of B had wooden steepers and 23 miles with 90-lb, flat-footed steel rails. On most of the branches the rails are 75-lb. flat-footed steel. The Bahramghat and Balamau-Madhoganj branches are laid partly with 75-lb. flat-footed steel rails, and partly with 60-lb. iron and steel rails, and the Madhoganj-Auhadpur extension with 60-lb. flat-footed steel rails. The Allahabad-Rac Bareli-Cawnpore branch is laid with 90-lb, flat-footed steel rails, British Stand-

ard, on wooden sleepers.

The sleepers are of the following types:—Stamped steel bowls, cast-iron pote (Fowler's patent box, Walton's, Hederstedts and M.C.), steel trough and wood (sal, decdar and Australian hard wood). There are a few wrought-iron saddle back sleepers still in the Kotdwara and Bahramghat branches.

Ballast .- The main line and branches are ballasted with sand, kunkur, stone, shingle and broken brick. Fencing.—The line is fenced throughout with the exception of the Balamau-Aubadpur, Rosa-Sitapur, Gajroula-Chandpur, Hapur-Meerut, Rajaka Sahaspur-Sambhal and Kotdwara branches and a portion of the Allahabad-Jaunpur branch.

Curves .- The sharpest curve on the line is of 955 feet radius.

Gradients.—The ruling gradient of the railway is 1 in 400, except between Rajaka Sahaspur and Sambhal 1 in 333, between Benares and Moghal Sarai, 1 in 300; between Moradabad and Lhaksar, 1 in 200; between Lhaksar and Saharanpur, 1 in 150; and between Najibabad and right bank of the Koh river. 1 in 100.

Contracts—
Nil.—The railway is owned and worked by the State.

Rates and farcs.—Certain maxima and minima have been fixed by the Government, between the limits of which the Railway Administration can vary the rates and fares quoted for goods and coaching traffic. Statistics of working (Those for the periods prior to 1889 will be found in Appendix 38 to the Railway Administration Report for 1907).—

Includes the Cawnpore-Burhwal (3' 3\" gauge) Link. Total capital outlay, Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction. age of net Gain or Proporarnings on total loss to the Earnings per mile tion of Gross open at end of each expenses to earn-ings. Interest. capital carnings. carnings pertaining to Year. each vear. given in column (3). wear. A 7 9 2 3 4 5 8 10 1 Rs. 42,04,076 37,54,478 Rs. 49,71,898 44,23,109 Re. Miles. 692.55 Rs. 9,22,32,226 Ra R 75,39,683 73,81,396 4 56 4 05 **—7,67,8**22 44°24 49°14 1889 -6.68,6311890 692.55 9,27,89,280 205 9,28,38,358 9,51,44,770 10,09,17,292 47,25,666 + 2,16,792 238 237 692.55 85,64,209 19,12,458 42.23 -2,63,082 -4,84,005 -5,75,063 -11,70,422 41°28 42°44 45°47 48°95 1892 1893 692 55 741 11 796 64 85,42,836 87,15,926 1,05,18,836 1,02,94,880 50,16,329 50,17,053 57,36,138 52,55,048 52,79,411 55,01,058 63,11,201 5.27 4·97 5·58 239 262 1894 10 28 87 184 1895 797 18 10,65,05,148 4.93 64,26,370 248 86,97,076 43,50,907 3.98 61,30,729 -17,79,822 209 49.97 1896 10.92.69.485 830:15 1897 1898 1899 891.97 1,030.36 1,030.36 11,44,19,239 11,66,56,000 12,23,50,210 85,15,856 98,51,599 1,11,38,990 36,96,778 53,07,727 60,76,595 3.23 59,77,486 58,76,247 59,75,202 -22.80.708186 56·59 46·12 45·45 -5,68,520 +1,01,393 190 208 1,101.50 12,57,60,656 1,15,15,132 55,91,727 4.45 62,28,185 -6.36.458209 51.44 1,32,54,991 72,20,007 5.60 63,12,014 +9,07,963 1901 1,118.94 12.89.85.151 1,32,54,991 1,31,65,792 1,39,49,922 1,52,96,206 72,20,007 64,11,386 72,31,862 71,33,117 63,43,667 13,66,82,842 14,54,28,164 64,79,103 68,40,953 70,54,120 -67,767 +3,90,909 +78,997 1902 1903 1,119·24 1,180·79 1,237·65 4.69 230 51:20 4.69 4.97 4.76 4.12 232 241 48·16 53·37 14 96 68 929 1,237·65 1,244·65 -8,24,76415,37,92,910 1,53,85,913 15,71,99,731 16,40,20,116 17,17,42,978 1.61.67.329 78.15.731 4.97 75,66,010 +2,49,721 219 1906 1,292.16 1,61,61,529 1,61,61,543 1,61,86,594 65,62,413 50,29,153 45,93,282 4.00 2.93 2.58 70,99,564 74,78,210 -5,37,151 -24,44,057 -30,49,567 269 239 **238** 63.98 68.88 72.76 51.48 1,302.83 1,302.83 1907 1908 1909 1,310 52 1,406 75 17,78,51,571 18,58,11,981 76,42,849 1,83,03,841 88,80,832 + 10,46,346 253 5:38 80,09,802 90,21,621 +21,78,666 256 48.56 19,51,23,398 20,17,01,276 2,03,88,454 2,45,19,400 1,04,88,468 1,39,76,826 1,518.77 1,601.14 1st qr. of 1918 1,604.14 20,24,29,541 61,06,475 28.60.729 1:41 21.64.489 +6.96.240293 38·1**5** 1,638.33 21,64,74,673 2,41,23,950 1,23,21,631 5.69 91,48,838 + 81,72,793 283 48.92 1913-14* 91,22,888 1,12,50,582 1,50,41,865 1,76,54,269 93,51,473 91,53,246 89,71,560 91,89,367 56·71 49·68 42·85 38·13 2,08,24,033 2,23,58,588 4·12 5·24 6·99 8·20 238 268 22.15 79.883 -2.28.585 1914-15* 1.682:00 21,46,85,603 21,52,10,491 21,52,66,333 1,606.87 1,606.87 1,592.29† + 20,97,336 + 60,69,805 + 81,64,902 1915-16 1916-17 1917-18 2,63,18,738 2,85,32,134

[&]quot; Includes the Cawapore-Banda railway.

[†]The decrease is due to the dismantlement of the Dhakia-Sambhal branch.

OUDH AND ROHILKHAND RAILWAY SYSTEM-contd.

Hardwar-Dehra railway (5' 6" gauge)-

Date of registration of the Company .- 12th March 1897.

Progress in opening-

Section of railway.												Date of opening.	Miles.	Total.	
				1									2	3	4
Hardwar to Dehra			•				•				•	•	1-8-00	82-04	32.04

Details of construction-

Permanent-way.—The permanent-way consists of 75-lb, flat-footed I. S. R. steel rails on deodar, sal, hard wood and Australian sleeners.

Ballast .- The line is ballasted throughout with stone.

Fencing.—The line is fenced throughout.

Curves.—There are no curves with a radius of less than 1,000 feet.

Gradients .- The ruling gradient is 1 in 75.

Agreement and contract-

Agreement, dated the 6th January 1897, between the Secretary of State and Messre. Gillanders, Arbuthnot and Company of Calcutta (called "the Promoters"), as to the grant of a provisional concession for the construction of the Hardwar-Dehra Branch railway.

Contract, dated the 26th March 1897 (called the scheduled contract), between the Secretary of State and the Hardwar-Dehra Railway Company, as to the construction, maintenance and working of the Hardwar-Dehra Branch railway.

Main provisions of agreement and contract-

- (i) Land .- Provided by the Government free of cost to the Company.
- (ii) Government aid .- The line is the property of the Hardwar-Dehra Branch Railway Company, and was constructed, from funds supplied by the Company, by the Government, who maintain, stock and work it through the agency of the Oudh and Rohilkhand railway. The Government guarantee interest at 3 per cent per annum on the capital expenditure, and

also undertake to allow to the Company, in any year in which it does not receive the minimum dividend of 3 per cent from the earnings of the Kne, the sum of Rs. 3,800 for such year for or towards management and office expenses.

- (iii) Terms of working.—For maintenance, provision of rolling-stock and working, the Oudh and Rohil-khand Railway Administration retains 50 per cent of the gross earnings of the Branch line.
- (iv) Distribution of profits. The surplus profits in each year remaining after repayment to the Government of the amount of the guaranteed interest for the year are to be divided equally between the Government and the Company.
- (v) Rates and fares. Certain maxima and minima have been fixed by the Government, between the limits of which the working agency (vis., the Oudh and Rohilkhand railway) can vary the rates and fares quoted for goods and coaching traffic.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, high Government officials and Government stores.-
 - (b) Government bullion and coin, and the persons in charge thereof.
- (vii) Power of the Government to determine contract. The Government may determine the contract, on twelve months' notice, either on the 31st December 1919 or on the 31st December in the last year of any subsequent period of ten years, by paying to the Company a sum equal to 25 times the average yearly net earnings of the Company during the last preceding three years, provided that such sum shall not exceed by more than 20 per cent, nor is less than, the total capital expenditure.
- (viii) Power of the Company to surrender contract .- Nil.
- (ix) Term of contract .- None specified.

OUDH AND ROHILKHAND RAILWAY SYSTEM-concid.

Hardwar-Dehra railway (5' 6" gauge) - concld.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.		Net earnings.	Percents age of net earnings on total capital outlay given in column (3).	Interest	Company's share of surplus profits (based on terms of contract) attributable to each year.	Gain or loss to the State pertaining to each year.	Earn- ings per- mile per week.	Pro- por- tion of expen- ses to earn- ings.	
1	2	3	4	5	6	7	* 8	9	10	11	12
1900 .	Miles. 32.04	Ra. 25,67,093	Rs. 1,60,485	Ra. 80,243	3.13	Rs. 	.Кы, 	Rs.	Rs. 115	50.00	Interest up to
1901 . 1902 . 1908 . 1904 .	82·04 82·04 82·04 82·04 82·04	28,12,301 28,36,486 28,44,541 29,12,992 29,20,650	2,13,456 2,52,485 2,62,719 2,68,612 3,13,476	1,06,728 1,26,242 1,31,360 1,31,806 1,56,738	3·80 4·45 4·62 4·52 5·37	84,220 85,048 85,260 86,777 87,590	11,254 20,597 23,050 22,515 34,574	+ 11,254 + 20,597 + 23,050 + 22,514 + 34,574	128 152 158 158 188	50.00 50.00 50.00 50.00 50.00	and net carn- ings of 1900 were credited to capital in
1906 . 1907 . 1908 . 1909 . 1910 .	32·04 32·04 82·04 82·04 32·04	29,24,284 29,27,942 19,44,092 29,65,357 29,85,683	3,84,110 8,86,565 3,76,334 3,68,624 4,04,443	1,67,055 1,93,283 1,88,167 1,84,312 2,02,221	5·71 6·60 6·89 6·21 6·77	87,688 87,822 88,165 88,734 89,548	39,688 52,780 49,991 47,789 56,837	+89,684 +52,731 +49,991 +47,789 +56,336	201 282 226 221 248	50.00 50.00 50.00 50.00	Total Camage and
1911 . 1912 .	32·04 82·04	30,10,716 30,18,164	4,31,161 4,40,299	2,15,581 2,20,149	7·16 7·29	90,017 90,541	62,782 64,804	+ 62,782 + 64,804	259 264	50·00 50·00	
1st qr. of 1913	32.01	3 0,18,79 0	1,21,302	60,651	2.01	22,641	19,005	+19,005	291	50.00	
1913- 14. 1914-	32-04	30,22,601	4,85,346	2,42,673	8.03	90,621	76,026	+76,026	291	50.00	
15.	32.04	30,26,584	4,66,506	2,83,258	7:71	90,749	. 71,252	+71,252	280	50.00	
1915- 16. 1916-	182-04	30,27,840	5,09,855	2,54,678	8.41	90,825	81,926	+81,927	306	50.00	
17. 1917-16	32·04 32·04	80,34,255 30,40,387	5,54,382 5,46,330	2,77,691 2,73,165	9 ·1 5 8·98	91,021 91,169	98,985 90,998	+ 98,385 + 90,998	383 328	50.00 50.00	

Campore-Burhwal link (3' 3} gauge)-

The construction of the Campore-Burhwal (3'33" gauge) link was sanctioned as a part of the project for linking up the 3' 3%" gauge systems of Northern India.

Progress in opening-

Section	я of га	ilwa	у.				Date of epening.	Miles.	Total.	Remarks.
	1						2	3	4	
Burhwal to Daliganj Alahbagh to Cawnpore	:	:	:	; Tor	At	:	24-11-96 25-4-97 	*35-31 45-03	80:34	"Including the leagth, Burhwal to Bara Banki, 1679 miles, laid on a mixed (5'6" and 3'3") gauge.

Details of construction-

Permanent-way .- Where the line is not mixed gauge it is laid with new 50-lb. steel rails on sall and deodar sleepers.

Ballast .- The line is ballasted throughout with kunkur, brick and mud stone.

Fencing .- The line is fenced throughout.

Curves .- The sharpest curve has a radius of 573 feet.

Gradients .- The ruling gradient is 1 in 400.

Contract-

The line is owned by the State. The Bengal and North-Western Railway Company exercises running powers over it under an agreement with the Oudh and Rohilkhand railway, dated the 21st February 1902, which provides that the Company will haul its trains and traffic over the link and pay to the Oudh and Rohilkhand railway 80 per cent, which has, with effect from the 1st July 1905, in pursuance of Railway Board's letter No. R. T. 173, dated the 30th June 1905, been reduced to 75 per cent of the gross receipts arising therefrom.

Statistics of working-

Included with the Oudh and Rohilkhand railway.

Chairman.—Sir Henry Kimber, Bart., M.P.

Managing Director.—Neville Priestley, Esq.

Offices.—Finsbury, Pavement House, London, E. C.

Date of registration of the Company.—1890.

The lines formerly owned and worked by the late Great Southern India and the Carnatic Railway Companies were amalgamated on the 1st July 1874, under the title of the South Indian railway which on the 1st January 1891 was purchased by the State and handed over, together with the Villupuram-Guntakal State railway, for working as one undertaking, to a new company—the existing South Indian Railway Company.

With effect from the 1st January 1908 the Jalarpet-Mangalors section of the former Madras railway including the Tirupattur-Krishnagiri, Morappur-Dharmapuri and the Nilgiri railways was incorporated in the undertaking of the South Indian Railway Company, who, from the same date, relinquished and made over to the amalgamated Madras and Southern Mahratta Railway Company the 3' 3\sqrt{g} gauge lines from Katpadi to Dharmavaram and from Pakala to Gudur, and obtained running powers over the Madras-Bangalore section of the Madras and Southern Mahratta railway. The Shoranur-Cochin Native State line was, on the same date, also transferred from the former Madras Railway Company to the South Indian Railway Company for working.

Lines comprised in the system.—The South Indian railway system is made up of-

						Open line	or sanctioned	Total.
(a) South Indian railway (5' 6" gange)						Miles.	for construction. Miles.	Miles.
(b) Suramangalam-Salem railway (5' 6" gange)	•			•		445.94	•••	445.94
(c) South Indian railway (3' 32" gauge)		•	•	•	•	3.86	***	3.86
(d) Nilgiri railway (3' 3" gauge)	•	•	•	•	•	881:49	***	881.49
(e) Peralam-Karaikkal railway (3' 3," gauge)	•	•	•	•	•	28.96		28.96
(f) Podatur-Pollachi railway (8' 35" gauge)	•	•	•	•		14.65	٠	14.65
(g) Pondicherry railway (3' 33" gauge)	•		•	•	•	25.04	***	25.04
(A) Shoranur-Cochin railway (3' 32" gauge)	•	•	•	•	•	. 27.85	***	7.85
(i) Tanjore District Board railway (3' 32" gauge)	•	•	•	•	•	61 75	. ***	64.75
(i) Tinnevelly-Quilon (Travancore) railway (British		m * 12	/ na// -	•		111.94	41.08	153.02
(k) Tinnevelly Quilon (Travancore) railway (Native	State	/III (0	y	auge	"	50.41		50.41
(l) Morappur-Hosur railway (2' 6" gauge)	BILLIC	Rectio	m) (a	34"	gauge,		***	95.96
(m) Tirupattur-Krishnagiri railway (2' 6" gauge)	•	•	•	•		73.40	***	73.40
(n) Manamadura-Siyaganga railway (2' 3 gange)	•	•		•		25.88		25.88
(a) Tinnevelly-Tiruchendur railway (3' 38"gauge) .		•	•			•••	12.43	12.48
(p) Trichinopoly-Pudukkottai railway (3 32 gauge)	•	•	•	•		***	38 18	38.18
(p) Triemaopoly-rumakkonai ranway to 5; guage)	•	•	•	•			32-00	82.00
anning powers—			Tota	l.		1,829.63	123.69	1,953.32
anning powers—								

Home line over foreign line.—

Madras to Eangalore, Madras and Southern Mahratta vailway, for passenger and goods rains

outh Indian railway (5' 6" gauge)—

Progress in opening-

₹11

S	octi	D18 C	f rai	lway.						Date of opening.	Miles.	Total.	Grand total
									ĺ	2	3	4	5
Main line-				. 0.00.00	*******	-							·
Wost outer signal at Jula	roet	to 7	`irun	attur				_	- 1	23-5-60	4:65		1
Tirupattur to Salem		-:-			:			:	- ,	1,2-61	69.98		1
Salem to Sankaridrug										1-12-61	23.68		1
Sankaridrug to Podanur										12-5-62	71.18		1
Podanur to Pattambi .								·		14-4-62	64.96		į.
Pattambi to Kuttippuram										23-9-61	11.50		1
Kuttippuram to Tirur									- 1	1-5-61	9:39		1
Tirur to Kadalundi .									- 1	12-3-61	16.31		1
Kadalundi to Calicut .									- 1	2-1-88	9.25		
Calicut to Badagara .										1-10-01	28.95		
Badagara to Tellicherry									1.1	1-5-02	13.50		
Tellicherry to Cannanore										20-5-03	13.00		1
Cannanore to Azhikal								٠.		15-3-04	4.10		i
Azhikal to Hosdrug .										21-8-06	34:52		1
Hosdrug to Kasaragod									. 1	1-10-06	14.22		1
Kasaragod to Kumbla									. !	17-11-06	7.62		1
Kumbla to Mangalore										3-7-07	20.91		1
fettupalaiyam branch-									- 1			417.72	1
Podanur to Coimbatore						_		_	. 1	1-2-73	0.50		1.
Coimbatore to Mettupalaiy	am				:	Ť		·	- 11	31-8-73	3.78		1
'alghat branch-		•		-	•		•	•	1		21.97	25.7 5	1
Olavakkot to Palghat!									.	2-1-88	2.47	2.47	1
							Tor.		- 1	-		441	445-94

Details of construction-

Permanent-way.—The rails are 76-lb. and 80-lb. bull-headed, 75-lb. double-headed and 75-lb. and 60-lb. flat-footed steel. The sleepers are east iron pots, irumbogam, sal, irool and jarrah wood.

Ballast.-The line is ballasted with stone and sand, chiefly the former.

Fencing .- The line is fenced throughout.

Curves .- The sharpest curve is of 700 feet radius.

South Indian railway (5' 6" gauge)-concld.

Details of construction-concld.

Gradients.—The ruling gradient of the greater part of the line is about 1 in 100, except on Mallapuram Ghat where it is 1 in 74 with a 1 in 70 banking; on the Walayar Ghat where it is 1 in 66 with a 1 in 62 banking; on the Azhikal-Mangalore section where it is 1 in 90; and on the Podanur-Mettupalaiyam section where it is 1 in 80.

Contract-

Up to and including the 31st December 1907 the line formed an integral part of the former Madras railway. With effect from the 1st January 1908 it was, in terms of the contract of the 2nd March 1909, between the Secretary of State and the South Indian Railway Company, made over to the Company to be worked and maintained as an integral part of the undertaking referred to in the principal contract of the 24th November 1890, the main provisions of which are noted under South Indian railway, 3' 3\frac{3}{2}'' gauge.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Not earnings.	Porcentage of not carnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8
-	Miles.	Rs.	Rs.	Rs.	The state of the s	Rs.	
1908	445.94	6,42,27,971	57,25,148	25,25,034	3.93	247	55.90
1900	445'94	6.13,58,255	62,30,385			269	54.76
1910 .	415.94	6,61,74,084	63,39,154			273	60.63
1911 .	145 94	6,57,73,175	69,66,156	38,13,110	5.80	300	45 26
1912 .	445.91	6,68,13,600	74,16,071	35,22,022	5.27	320	52°51
1st qr. of					i		
1913.	445.94	6,72,88,570	18,84,615	5,32,409	0.79	325	71.75
1913-14	44591	7,01,73,755	79,54,816		4 26	343	62.39
1914-15 .	41594	7,13,55,000	78,17,229	32,06,665	4.49	337	58.98
1915.16 ,	445*94	7.26,72,632	84,90,992			3 66	46.99
1916-17	445-91	7,20,78,897	98,22,191	49,48,932		124	49 61
1917-18 .	415.94	7,18,73,597	1,10,05,446	61,88,041	9.03	475	11 05

Suramangalam-Salem railway (5' 6" gauge-

Sanction to the construction of this line by the South Indian Railway Company on behalf of the District Board of Salem was conveyed in Railway Board's Notification No. 72, dated the 23rd March 1915.

Progress in opening-

	Se	etion	of F	≀ni w	ay.				Date of opening.	Miles.	Total.
a sales on the sales of the sal	 		1					 	2	3	4
Suramangalam to Salem			•	•					1-6-17	3 96	3.86

Details of construction-

Permanent-way.—The permanent-way consists of 75-lb. double-headed steel rails laid on Kongu sleeners.

Ballast .- The line is ballasted with moorum.

Fencing .- The line is unfenced except at Sevvayypettai station yard.

Curves.-The sharpest curve is of 1,432 5 feet radius.

Gradients.-The ruling gradient is 1 in 100

176RB

Suramangalam-Salem railway (5' 6" gauge)-concld.

Agreement-

The line was constructed and is being maintained and worked under the terms of an agreement which is under consideration.

Statistics of working-

Year.	Mileage open at end of the year.	Total capital outlay, including suspense, to end of the year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earn- ings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	, 7	8
1917-18	Miles.	Rs. 4,71,972	Rs. 13,451	Rs. 3,730	0.79	Rs. 81	72:27

South Indian railway (3' 3%" gauge)—

	Pro	gress	in o	penin	g-
--	-----	-------	------	-------	----

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	Romarks.
1	2	3	4	5	6
MADRAS-TUTICORIN SECTION-	-				
Main line—					
Madras Beach Junction to Madras Beach	15-1-00	0.11			
Madras Beach eld to Park	1-1-79	1.82			
Madras (Park) to Tindivanam	1-9-76	76.05			
Tindivanam to Cuddalore (Old town)	1-1-77	52.01			
Cuddalore (Old town) to Porto Novo	1-7-77	17-15			*Originally cor
Porto Novo to Chidambaram	1-10-78	6.73			structed on the 5'6' gauge, but we
Chidambaram to Coloroon	1-7-79	4.57			gauge-Tanjore t
Coleroon to Shiyali	1-1-78	6.06			Budalur, 10 85, o 10th July 1875 an
Shiyali to Mayayaram	1-7-77	12-24			Budalur to Trich nopoly Jn., 2021
Mayavaram to Tanjose	15-2-77	43.76	1		on 17th July 1975 †Originally con
Tanjore to Trichinopoly Junction	11-3-62	*31-14	. !	ĺ	structed on the
Trichinopoly Junction to Madura	1-9-75	96.04		1	converted to 3/ 3} gauge, in section
Madura to Mandapam	1-8-02	89.50	!		on 12th, 13th
Mandapam to Pamban	1-1-14	3.12			Criginally contracted on th
Pamban to Rameswaram	11-9-06	6.95			5'6" gauge, but wa converted to 3' 32
Rameswaram to Dhanushkodi Jetty	0 12-08	11 30	Ì	Ì	gauge-Tanjore t
Dhanushkodi Jetty to Dhanushkodi Point	1-12-11	1.57	1	l	1873, on 3rd Jul. 1875 and Nida
Branches-	į.		460-12		mangalam to Tiru vallur, 15 10, or
Irkonam branch—	ŀ	- 1	1		26th June 1875. § Originally con
Chingleput to Walajabad	1-8-80	13.66	}		structed on the 5'6 gauge, but wa
Walajabad to Conjecveram	1-1-81	7.91		I	converted to 3'3# gauge on 19t
Conjecveram to Arkonam	8-5-65	+17.65		1	June 1875.
ondicherry branch -	-		39.25	i	
Villuparum to the Gingeo river, inclusive of the bridge over the river . 1	5-12-79	16.47	l	- 1	
AGORE BRANCH-			16.47		
Tanjore to Tirnvallur	2-12-61	133-83		1	
Tiruvallurto Nagapatam	1	§14·83			
Nagapatam to Nagore	1-12-99	4-67		- 1	
Carried over			52.83		

South Indian railway (3' 83" gauge) -contd.

Progress in opening-concld.

Sections	of re	ilwa	y.							Date of opening.		Total.	Grand total.	Remarks.
									_	2	3	6	5	6
					Bro	ught	forw	ard				568-67		
Pulliarpati Quarry branch— Tanjore to Pulliarpati quarry bu	fter	end								1-7-98	4.57			
Frode branch— Trichinopoly Junction to Fort										11-8-62	2.52	4.57		
Trichinopoly Fort to Karur . Karur to Kodumudi Kodumudi to Erode	:	:	:	:	:	:	:	:	:	3-12-66 1-7-67 1-1-68	16.71 23.53			
Tuticorin branch— Madura to Tuticorin Tuticorin to Foreshore										1-1-76	98.71	*87:41		Originally con- structed on the 5'6" gauge, but was
Tinnevelly branch—	•	•		•	•	•	•		•	7-8-99	0.41	99 12		gauge— Trichino-
Maniyachi to Tinnevolly . What branch—	•	•	•	٠	٠,	٠	•	• '	•	1-1-76	18:00	18.00		Karur on 1st July 1879 and Karur to Erode on 16th De-
Cuddalore (Old town) to Wharf		•	•	•	٠	•	•	•	٠	7-8-99	1:54	1.24		cember 1879.
Junction with main line to Cappe	er Q	narry	•	•		٠	•	•		15-4-00	0.86	U-8 6	ļ	
Sall branch Tuticorin to buffer end of Living	0]·u:	am					٠		-	12-11-99	2:39	2:39		
LLUPURAM-KATPADI SECTION— Main line— Villupuram to Tiruvannamalai										17-11-90	41.80	2.50		
Tiruvannamalai to Kutpadi	:	•	:	•	•	:	;	•	-(18-3-91	57-13	98.93		
		GRAI	ND T	OTA	r Ori	EN M	IL PA	G TE					881.49	

Details of construction-

- Permanent-way.—The rails in use are 52-lb. and 50-lb. bull-headed steel, 56-lb., 55-lb. and 414-lb. flat-flooted steel, 40:3-lb. flat-flooted and 68-lb. double-headed iron. The 55-lb. rails are laid on the Pamban viaduet only. The sleepers are cast iron pot, steel transverse, sal, pynkade, west coast test, jarrah and irod wood.
- Ballast.—The line is ballasted throughout, partly with broken stone and partly with laterite and gravel interspersed.
- Fencing.—The line is fenced, with the exception of the Villupuram-Katpadi, Madura-Mandapam and Pamban-Dhanushkodi sections which are fenced only at stations.
- Curves .- The sharpest curve is of 500 feet radius.
- Gradients.--The ruling gradient is 1 in 200, except on the length between Madras Beach and Fort and on the Villupuram-Katpadi, Trichinopoly-Madura and Karur-Erode sections where it is 1 in 100.

Contracts-

- Dated the 24th November 1890 (called the principal contract), between the Secretary of State and the South Indian Railway Company, for maintaining and working from the 1st January 1891, the railways which on the 31st December 1890 formed the undertaking of the former Company and completing and working the Villupuram-Guntakal railway.
- Dated the 27th June 1901 (supplemental to the principal contract), between the Scorelary of State and the South Indian Railway Company, relating to the construction and working of Pamban and Travancore branches.
- Dated the 8th April 1903 (supplemental to the principal contract), between the Secretary of State and the South Indian Railway Company, as to the adoption of 1x. 4d. per rupee as the "prescribed" rate of exchange.
- Dated the 2nd March 1909 (supplemental to the principal contract), between the Secretary of State and the South Indian Railway Company, providing for the relinquishment from 1st January 1908 of the section of the Company's line north of Katpadi and the transfer to the Company from the same date of the Jalarpet-Mangalore section of the former Madras railway.
- Dated the 26th October 1909 (supplemental to the principal contract), between the Secretary of State and the South Indian Railway Company, for the construction and working as an integral part of the undertaking of the Dharmapuri-Hosur extension of the Morappur-Dharmapuri railway.

South Indian railway (3' 33" gauge) -contd.

Contracts-soneld.

- Dated the 21st December 1910, between the Secretary of State and the South Indian Railway Company, supplemental to and continuing with further modifications, with effect from 1st January 1911, the principal contract of the 24th November 1890 as modified by previous supplemental contracts.
- Dated the 23rd April 1914 (supplemental to the contracts of 1901, 1903, 2nd March and 26th October 1909 and 1910), between the Secretary of State and the South Indian Railway Company, as to the adoption of the Government financial year for the preparation of accounts.

Main provisions of contracts-

- (i) Land .- Provided by the Government at the cost of capital.
- (ii) Government aid.—Guarantee of 3½ per cent in sterling on the Company's share capital of £1,000,000, and on any paid-up stock or share (other than preference) capital thereafter issued by the Company with the sanction of the Government (not including premia paid thereon).
- (iii) Distribution of profits.—Under section 60 of the principal contract of the 24th November 1890 as amended by section 25 of the supplemental contract of the 21st December 1910, the net revenue receipts of each half-year are applied, in the following manner and order:—

In payment to Government-

- (a) of interest at the rate of 3½ per cent per annum for such half-year, paid by Government under section 11 of the principal contract, i.e., under (ii) above;
- (b) of the amount paid by Government in respect of interest for such half-year, upon the sum of \$C125,000\$ irredeemable debenture stock of the former Company; upon the debentures for £375,000 and £73,000, respectively, issued for the purposes of the Pamban Branch; and upon any debenture stock or debentures or preference stock or shares issued by the Company after the 31st December 1910;
- (c) of interest for such half-year at the rate of 34 per cent per annum on the amount of the Government capital account for the division of such receipts; and
- (d) the residue, if any, is divisible between Government and the Company in the ratio of the average amounts, calculated as prescribed, of the capital contributed by the Government and the Company, the Government capital being the amount shown in the Government Capital Account for division of net revenue receipts and the Company's capital the amounts of its stock and share capital (other than preference capital) paid up or credited as paid up, excluding any premia received, subject to the proviso that if the amount of the Company's share so arrived at should in the combined halves of any of the years 1911, 1912 and 1913 be less than interest for such year at the rate of 10 shillings per cent on its capital, the Government shall make up the deliciency.
- (iv) Rates and farcs.—The Government will from time to time authorise maxima and minima rates, and prescribe the several classes and descriptions of passengers and goods to which such rates shall be respectively applicable, as well as the extent to which, within the authorised maxima and minima, the Company may vary the said rates.

The Company have power to quote through rates and fares for both go ds and passengers from the Jalarpet-Mangalore section to the Madras-Bangalore section of the Madras and Southern Mahratta railway system (but not in the reverse direction), divisible between the two companies in mileage proportion without deduction of terminals or other special charges, except for traffic to and from the Nilgiri line the mileage over which is reckoned at twice its actual mileage in the division of such rates. No rate or fare to Madras so quoted should, without the prior sanction of the Government, be higher than that which, for the same class or description of traffic, was in force on the 1st January 1910.

- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—To be conveyed on the same general conditions as on State railways of the same gauge.
 - (b) Government bullion and coin, and the persons in charge thereof.—To be conveyed at special rates to be approved by Government.
- (vi) Services for any Department of the Travancore Durbar.—On such portion of the Travancore Branch as runs through the Native State of Travancore, to be performed on the same general conditions as on other 3' 3\frac{3}{8}'' gauge State railways and at rates approved by the Government.
- (vii) Power of the Government to determine contract.—The railway and all its appurtenances are absolutely the property of Government, who may terminate the contract on the 31st December 1945, or at the end of any succeeding fifth year, by giving to the Company in England not less than 12 calendar months' previous notice; also at any time on 6 months' notice should the Company fail to observe its obligations or the undertaking be worked at a loss for not less than three half-years continuously.

On the expiration or determination of the contract the Government are to take possession of the railway and all its appliances, etc., repaying the Company at par its capital of £1,000,000 and any further capital raised by it and paid to Government but excluding any premia paid thereon, and receiving from the Company any unexpended balance of the capital advanced by Government for the purposes of the undertaking as well as for the Travancore Branch.

South Indian railway (3' 3}" gauge) -concld.

Main provisions of contracts-concld.

- (viii) Power of the Company to surrender contract .- Nil.
- (ix) Term of contract. -55 years, i.e., from 1st January 1891 to 31st December 1945, subject to (vii).

Statistics of working (Those for the periods prior to 1891 will be found in Appendix 36 to the Railway administration Report for 1807).—

Includes the South Indian (5' 6" gauge), Nilgiri, Morappur-Hosur and Tirupattur-Krishnagiri railways from 1908.

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net carnings on total capital outlay given in column (3).	Interest.	Company's share of surplus profits (based on torms of contract) attributable to each year.	Company's share of net earnings (aurplus profits plus guarantoed interest on share capital) on Company's capital.	loss to the State pertaining to each year.	Earn- ings per mile per week.	tion of expenses to earn- ings.
1	2	3	4	5	6	7	8	9	10	11	12
1891 1892 1893 1894 1895	Miles. 900:76 1,105:19 1,041:51 1,041:51 1,041:59	Rs. 7,72,11,806 7,82,83,761 7,63,31,043 7,64,13,362 7,68,38,604	Rs. 70,86,756 77,14,996 80,92,415 80,46,559 89,14,947	Rs. 24,29,625 28,53,591 31,15,918 32,83,865 38,96,987	3:15 3:65 4:08 4:30 5:07	Rs, 35,89,726 39,51,093 38,58,152 42,81,812 42,77,578	Rs. 70,901 76,586 1,41,676 1,55,059 2,60,599		Rs. -12,31,012 -11,74,088 -8,83,910 -11,53,006 -6,41,100	Rs. 154 137 149 148 165	65:47 63:01 61:50 58:19 56:29
1896 1897 1898 1899 1900	1,041.59 1,041.59 1,017.68 1,030.58 1,033.63	7,67,63,325 7,66,46,858 7,45,21,878 7,53,12,929 7,62,95,528	89, 15,581 91,81,109 84,67,581 84,74,461 89,01,825	40,27,489 42,96,757 38,35,527 39,83,540 40,97,916	5:25 5:61 5:15 5:29 5:76	49,60,077 38,76,142 37,19,521 36,88,393 36,62,004	2,86,156 3,37,792 2,66,184 3,01,776 3,68,699	 	-3,19,344 +82,823 -1,80,178 +48,371 +3,66,223	165 170 157 159 166	54.98 53.20 54.70 52.99 50.61
1901 1902 1903 1904 1905	1,033-63 1,123-13 1,123-13 1,123-13 1,123-05	8,04,49,712 8,18,32,571 8,31,40,603 8,45,16,652 8,62,95,191	1,01,44,657 1,05,51,072 1,22,14,138 1,25,12,321 1,29,31,476	54,15,176 56,87,510 72,76,216 69,62,790 65,77,330	6:73 6:95 8:75 8:24 7:63	37,23,736 38,18,200 39,06,079 10,55,602 40,05,713	5,43,890 5,33,246 7,89,547 7,16,725 6,30,603	::: ::: :::	+11,47,550 +13,36,055 +25,80,590 +21,90,463 +19,41,014	188 189 209 214 221	46.62 46.10 40.43 44.35 40.15
1906 1907 1908 1909 1910	1,130:00 1,129:85 1,395:61 1,395:61 1,395:61	8,91,97,605 9,06,35,408 15,07,19,882 15,57,78,715 16,08,95,627	1,32,75,295 1,41,19,421 2,01,61,326 2,17,41,647 2,24,59,591	58,92,976 71,69,813 94,20,016 1,01,90,046 1,02,34,257	6:61 7:91 6:25 6:54 6:36	40,02,722 38,76,608 46,89,556 49,52,136 51,95,988	4,94,281 6,71,818 6,98,860 7,44,562 7,13,317	 	+ 13,05,973 + 26,21,387 + 40,31,600 + 41,98,048 + 44,14,952	227 240 282 300 309	55:61 49:22 53:96 53:18 54:43
1911 1912 1st qr. of	i .	16,28,91,154 17,08,55,986	2,19,91,786 2,70,84,141	1,24,16,673 1,31,63,987	7 62 7.73	52,77,315 54,89,120	3,20,622 3,58,165	5:62 5:87	+ 68,18,736 + 73,16,702	341 373	50:32 51:89
191 3 . 1913-14	1,395·61 1,453·60	17,32,28,471 18,26,41,473	68,27,737 2,80,70,002	27,15,071 1,17,27,795	1:49 6:42	11,07,095 78,71,656	45,705 2,24,394	1·17 4·97	+ 12,62,281 + 36,31,745	376 373	59·85 58·22
1914-12 1915-16 1916-17 1917-18	1,455·17	18,96,35,625 18,78,31,769	2,72,73,211 2,95,90,946 3,23,83,253 3,53,66,666	1,15,22,805 1,49,91,076 1,62,25,740 2,02,02,479	6·14 7·90 8·64 10·76	63,34,802 65,33,607 64,44,193 65,29,673	1,79,159 4,32,328 5,17,105 *8,02,782	4:66 6:38 6:95 8:85	+50,08,844 +80,25,141 +92,64,142 +1,28,70,024	350 389 425 465	57-75 48-81 49-89 42-88

Nilgiri railway (8' 33" gauge)-

The original Nilgiri Railway Company was registered on the 30th September 1885 with nominal capital of Rs. 25,00,000, and a contract was executed between the Secretary of State and that Company on the 26th February 1886. The original Company went into liquidation in April 1894 and a new Company was formed in February 1896 to purchase the line from the former Company and supply the capital required to complete it and to construct the proposed extension to Ootacamund. The line from Methypalaiyam to Compony was completed by the new Company and opened for traffic on the 15th June 1899. On the offer of the new Company to sell the line it was purchased by the Government for £285,000 on the 1st January 1903. The extension to Ootacamund was constructed by the Government.

		Sect	ions		ailwa	y.							Date of opening.	Miles.	Total.
				1									2	3	4
Mettupalaiyam to Coonoor Coonoor to Fernhill Fernhill to Ootacamund	:	:	:	:	:	:	:	:	:	:	:	:	15-6-99 15-9-08 15-10-08	16·99 10·86 1·11	
· .										To	FAL				28-96
176RB															36

^{*} The share of loss recoverable from the Company in working the British section of the Tinnevelly-Quilon (Travancore) railways is not deducted from this smount. The surplus profits were divided between the Government and the Company in the proportion of Ea. 19,500,000 or 18.1, 10,000,000 or 18.1.

Nilgiri railway (3' 33" gauge) -concld.

Details of construction-

Permanent-way.—The permanent-way consists of flat-footed steel rails, 50 lbs. to the yard, laid on pynkado sleepers. Between Kallar and Coonoor (12 miles) there is also a central rack rail.

Ballast.—Rack section is ballasted with clean broken granite and the Adhesion section with hard gneiss.

Fencing .- The line is unfenced throughout.

Curves .- The sharpest curve is of 318 feet radius.

Gradients.—The ruling gradient is 1 in 12:5 on the Rack section and 1 in 25 on the Adhesion section.

Contract_

The railway was worked by the former Madras Railway Company up to the 31st December 1907 on behalf of the Government. With effect from 1st January 1908 it was made over to the South Indian Railway Company as a part of the Jalarpet-Mangalore section for working as an integral part of their undertaking in terms of the contract of 2nd March 1909 between the Secretary of State and the Company with the condition that the South Indian Railway Company are not to pay interest on the capital cost of the Cooncor-Ootacamund railway incurred either before or after 1st January 1908.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907).—

Year.	Mileage open at end of each year.	Total capital ontlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under con- struction.	Gross carnings,	Net carnings.	Percentage of not carnings on total capital outlay given in column (3).	Farnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5 .	6	7	8
1908 1909 1910	Miles, 28:96 28:96 28:96	its. 67,82,028 70,32,241 75,94,023	Rs. 3,36,030 4,08.791 4,57,097	Re. 42,991 53,657 72,441	0°63 0°76 0°95	Rs. 223 271 304	87:21 86:87 84:15
1911 1912	28:96 28:96	77,29,506 78,32,496	4,94,851 5,21,687	1,2 4,63 2 1,16,4 4 3	1.61 1.49	329 346	74:81 77:68
1st qr. of 1913. 1913-14 1914-15 1915-16 1916-17 1917-18	28:96 28:96 28:96 28:96 28:96 28:96	78,64,535 81,18,956 82,82,093 83,64,280 83,89,102 83,95,163	1,25,409 5,34,969 5,74,861 6,95,971 7,79,928 9,03,285	25,923 98,376 23,957 89,920 2,69,516 3,35,878	0°S3 1°21 0°29 1°08 3°21 4°00	333 357 382 462 518 600	79:83 81:75 95:83 87:08 65:44 62:81

Peralam-Karaikkal railway (3' 3\square)-

The line is partly in British and partly in French territory and was constructed (by the agency of the South Indian Railway Company) with the object of placing the town and port of Karaikkal in communication with the railway system of Southern India.

Progress in opening-

	8	eoti	on of	railv	vay.					Date of opening.	Miles.	Total,
	 		1							2	3	4
Peralam to Karaikkal			•					•	•	14-3-98	14-65	14:65

Details of construction-

Permanent-way.—The permanent-way consists of 411-lb. flat-footed steel rails and 40.3-lb. flat-footed iron rails for a length of 1.45 miles only, laid on wooden and steel transverse sleepers.

Ballast. - The line is ballasted with laterite.

Fencing .- The line is fenced only at stations.

Curves. - There are no curves with a radius of less than 1,000 feet.

Gradients.-The ruling gradient is 1 in 200.

Contract-

Dated the 27th March 1902, between the Government of the French Settlements in India and the South Indian Railway Company, for the working of the Peralam-Karaikkal railway.

Peralam-Karaikkal railway (8' 33" gauge)-concld.

Main provisions of contract-

- (i) Land .- In French territory provided by the Colonial (French) Government free of cost but subject to a land tax as for private property : in British territory by the British Government free of cost on condition that the proprietary rights remain vested in the British Government.
- (ii) Government aid.—The railway was constructed at cost price by the South Indian Railway Company at the request and on behalf of the Colonial (French) Government, and is worked and maintained by the Company who provide the rolling-stock required for the traffic of the Peralam-Karaikkal railway.
- (iii) Terms of working.—

 Direction, maintenance and working expenses, excluding the cost of repairing damages due to any extraordinal casualty and new minor works not costing more than Rs. 1,000 on the system, are calculated
- at the same proportion of the gross receipts of the Peralam-Karaikkal railway as obtains halfyearly on the Company's system, including worked lines, as a whole, plus the cost of repairing damages due to any extraordinary casualty and of New Minor Works on the branch, 5 per cent of the gross receipts of the Branch for the use of the Company's rolling-stock and 5 per cent per annum for interest on Rs. 30,000 which is taken as representing the Branch line's share of the Company's outlay on revenue and other stores and workshop buildings and machinery.

The " net carnings " so arrived at are paid every half-year to the Colonial (French) Govern-

Provided always that if, at any time, the working of the Peralam-Karaikkal railway involves an actual loss to the Company, the Colonial (French) Government shall make good such loss.

- (v) Rates and fares .- To be agreed to between the Company and the Colonial (French) Government, but should not be less than the minima actually in force on the Company's undertaking.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.— (b) Government bullion and coin, and the persons in charge thereof.—
- Determinable by either party on giving to the other 12 (vii) Power of Colonial (French) Government to determine contract .-(viii) Power of the Company to determine contract .-
- months' previous notice expiring on the 30th June or 31st December in any year. (ix) Term of contract, if not determined under (vii) or (viii) .- Not specified.

Statistics of working 'Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1807.)—

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to carnings.
-1	2	3	4	5	6	7	8
	Miles.	Rs.	Rs.	Rs.	!	Rs.	
1908 1909 •1910	14:65 14:65 14:65	7,23,786 7,23,786 7,23,786	43,948 46,125 44,070	14,361 13,590 —517		58 61 58	67-32 70-84 101-78
1911 1912 1st qr. of	14.65 14.65	7,23,786 7,23,786	51,162 61,431	17,519 19,715	2·42 2·72	67 81	65·76 67·91
1913. 1913-14	14·65 14·65	7,23,786 7,23,786	13,500 63,513	-704 21,393	2.06	71 83	66.83 102-31
1914-15	14.65	7,23,786	66,464	20,041	2.77	87	69-86
1915-16 1916-17 1917-18	14 65	7.23,786 7.28,786 7,23,786	65,771 64,917 64,309	23,026 23,187 21,584	3·18 3·06 3·98	86 85 81	64·99 65·85 66·44

Podanur-Pollachi railway (3' S}" gauge)-

The construction of this line by the South Indian Railway Company from funds to be provided by the District Board of Coimbatore was authorised in Railway Board's telegram No. 470 R.P., dated the 19th November 1913.

Section of railway.	Date of opening.	Miles.	Total.
1	. 2	8	4
Podanur to Pollachi	15-10-15	25.04	25-04

Podanur-Pollachi railway (3' 31" gauge) -conold.

Details of construction-

Permanent-way .- The line is laid with 414-lb. flat-footed steel rails on hardwood (irol) sleepers.

Ballast.—The line is ballasted with moorum, except for 6 miles where field stones and Kunkar are used.

Fencing .- Only the Pollachi station yard is fenced.

Curves.—The sharpest curve is of 955 feet.

Gradients.-The ruling gradient is 1 in 70.

Agreement—
The line was constructed and is being maintained and worked under the terms of an agreement which is under consideration. the terms of an agreement which is under consideration.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
	2	3	. 4	5	6	7	8
1915-16 . 1916-17 . 1917-18 .	Miles, 25:04 25:04 25:04	Rs. 11,09,181 10,48,834 11,37,252	Rs. 63,702 1,60,792 1,80,127	Rs. 34,178 81,972 91,319	3:08 7: 82 8:2 9	Rs. 106 129 133	46·35 49·02 47·64

Pondicherry railway (3' 33" gauge)-

The line is in the French territory and was constructed (by the Pondicherry Railway Company under the supervision of the South Indian Railway Company) with the object of placing the town and port of Pondicherry in communication with the railway system of Southern India and of developing the resources of the territory.

Progress in opening-

Section of railw		 	 	 Date of opening.	Miles.	Total.
East bank of the Gingee river to Pondicherry				15-12-79	7.85	7.85

Details of construction-

Permanent-way.—The line is laid with 411-lb. flat-footed steel rails on wooden sleepers, except between miles 117 and 118 where 50-lb. bull-headed steel rails are laid on cast iron pot sleepers.

Ballast.-The line is ballasted with stone.

Fencing.—The line is fenced.
Curves.—The sharpest curve is of 495 feet radius.

Gradients .- The ruling gradient is 1 in 200.

Agreement and contract-

Agreement, dated the 30th December 1890, between the South Indian Railway Company and the Pondicherry Railway Company, for maintenance and working.

Despatch from the Secretary of State, No. 19 Ry., dated the 17th March 1895, intimating the renewal of the agreement by the parties thereto.

Contract, dated the 23rd April 1914 (supplemental to the principal contract of 1890), between the Secretary of State and the South Indian Railway Company, as to the adoption of the Government financial year for the preparation of accounts.

Main provisions of agreement-

- (i) Land .- Not specified.
- (ii) Government aid.—The railway (which was constructed by the Pondicherry Railway Company) is maintained, worked and provided with rolling-stock by the South Indian Railway Company as an integral part of their undertaking—except only as to such works required for the accommodation and extension of traffic on the Pondicherry line which the Pondicherry Railway Company would have had to construct had they been themselves working their own line, which the latter undertake to make at their own cost to the satisfaction of the South Indian Railway Company.
- (iii) Terms of working .-
- Maintenance and working expenses are charged for at the same percentstribution of profits.—
 South Indian Railway

 Company's undertaking including the Pondicherry railway as obtains on the
 Company's undertaking including the Pondicherry line—duty, if any,
 payable to the Colonial (French) Government and direction and office expenses in England being
 excluded from the calculation. The balance is payable half-yearly to the Pondicherry Railway (iv) Distribution of profits .-Company.

Pondicherry railway (3' 3%" gauge) -concld.

Main provisions of agreement - concid.

(v) Rates and fares.—

- (vi) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Govern-
 - (b) Government bullion and coin, and the persons in charge thereof .-
- ment officials, and Government \ To correspond with those for the time being in force on the South Indian Railway Company's undertaking.
- (vii) Power of the Government to determine agreement. The agreement terminates upon the determination by Government of the South Indian Railway Company's principal contract with the Secretary of State. dated the 24th November 1890, wide (vii) under South Indian railway (3' 33" gauge).
- (viii) Power of the South Indian Railway Company to determine agreement.—

 The agreement is terminable by either party on
 - 6 months' notice given expiring on the 31st December in any year, subject to (vii).
 - (x) Term of agreement. The agreement was originally for a term of 3 years, but it has since been renewed subject only to (vii), (viii) and (ix).

Statistics of working. (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)-

		Ye	ar.			Mileage openatend of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines purtly or wholly under construction.	Gross earnings.	Net earnings.	Percent- age of net earnings on total capital outlay given in column (8).	per mile	Proportion of expenses to earnings
	and the same of th		1			2	8	4	5	6	7	8
1908 1909 1910	:	•	:	:	:	Miles. 7:85 7:85 7:85 7:85	Rs. 5,68,543 5,68,543 5,68,543	Rs. 77,018 86,073 97,417	Rs. 35,890 89,163 43,611	6:31 6:89 7:07	Rs. 189 211 239	58:41 54:50 55:25
1911 1912 1st qr. 1918-14 1914-15 1915-16 1916-17 1917-18		913	:	:	:	7:85 7:85 7:85 7:85 7:85 7:85 7:85 7:85	5,64,543 5,68,543 5,68,543 5,68,543 5,68,533 5,64,543 5,64,543 5,68,543	1,09,623 1,46,867 72,699 1,56,981 1,02,839 1,04,176 96,434 96,111	54,068 70,932 28,382 65,016 41,656 52,675 47,889 54,415	0:50 10:93 4:99 11:08 7:33 9:26 8:84 9:57	269 889 712 385 252 260 236 235	50°71 51°54 60°96 59°86 59°50 50°86 43°38

Shoranur-Cochin railway (3' 33" gauge) -

The Shoranur-Cochin railway is the property of the Cochin Durbar and was worked by the former Madras Railway Company up to the 31st December 1907. With effect from the 1st January 1908, it was made over to the South Indian Railway Company to be maintained and worked as part of its undertaking.

Progress in opening-

		Secti	on o	f rail	way.	Date of opening.	Miles.	Total.		
	1							2	3	4
Shoranur to Ernakulam.								16-7-02	64.75	61.75

Details of construction-

Permanent-way. - The permanent-way consists of 414-lb. flat-footed, and a few 50-lb. bull-headed, steel rails laid on wooden sleepers.

Ballast .- The line is ballasted throughout with stone and sand, chiefly the former.

Fencing.—The line is fenced in the vicinity of towns, stations and level crossings. Curves.—The sharpest curve is of 818 57 feet radius.

Gradients.-The ruling gradient is 1 in 80.

Agreements-

Dated the 1st January 1908, between His Highness the Roja of Cachin and the South Indian Railway Company, for maintenance and working.

Dated the 24th May 1915, between His Highness the Raja of Cochin and the South Indian Railway Company, as to the adoption of Government financial year for the preparation of accounts.

Shoranur-Cochin railway (3' 3#" gauge) -concld.

Main provisions of agreement-

- (i) Land .- Provided by the Cochin Durbar free of cost.
- (ii) Government aid.—The railway (which is the property of the Cochin Durbar) is maintained and worked by the South Indian Railway Company in all respects as part of their own undertaking, except only as to the provision of funds for capital expenditure which are provided by the Durbar.
- (iii) Terms of working.—For maintenance and working the Shoranur-Cochin railway the Durbar pays to the Company in each half-year-
 - (a) All expenditure on renewals, as distinguished from maintenance expenses, incurred on the Durbar's line :
 - (b) the Durbar's railway share of working expenses arrived at by deducting from the total working expenses of the combined system the expenditure incurred on the combined system for renewals as distinguished from maintenance, and dividing the balance between the Company and the Durbar's railway in the proportion that the gross receipts of the latter bear to those of the combined system; and
 - (e) the sum payable under the agreement as rent for the use of the Shoranur Junction station based on the total cost of the Junction station.
- (iv) Distribution of profits.—Any difference between the gross receipts of the Shoranur-Cochin railway and the payment for working under (iii) which may exceed 2 per cent on the booked capital expenditure of the Durbar's line including land are deemed "surplus profits," divisible between the Durbar and the Company in the proportion of four-fifths to the former and one-fifth to the
- (v) Rates and fares .- Those generally applicable to the South Indian railway system; vide (iv) under South Indian railway (3' 3g" gauge).
- (vi) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Government officials, and Government stores .-
 - ment stores.—

 (b) Government bullion and coin, and the persons in charge As on Indian State railways. thereof .-
- (vii) Power of the Government to determine agreement .- The agreement terminates upon the determination by Government of the South Indian Railway Company's principal contract with the Secretary of State, dated the 24th November 1890, vide (vii) under South Indian railway (3' 33" gauge)
- (viii) Power of the Cochin Durbar to determine agreement. On giving 12 months' notice expiring on (ix) Power of the Company to determine agreement. } the 30th September or before the 31st March in the succeeding year.
 - (x) Term of agreement.—Subject to (vii), (viii) and (ix).

Statistics of working. (Those for the periods prior to 1908 will be found in Appendix 38 to the Rail. way Administration Report for 1907).

	Year	•		Mileage open at end of each year.	Total capital ontlay, in- oluding suspense, to end of each your, i.e., out- lay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net carnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
	1			2	3	4	5	6	7	8
				Miles.	Re.	Rs.	Ks.		Rs.	
1908 1909 1910	;	:	:	64.75 64.75 64.75	69.14.148 69.86,248 69,48.970	4,44,076 5,16,290 5,62,461	2,00,352 9,60,923 2,56,954	2°89 3°73 3°69	132 153 167	54·88 49·45 51·32
1911 1912 1st qr. 1918-14 1914-11 1915-16 1916-11	6 . 5 . 7 .	13		64.75 64.75 64.75 64.75 64.75 64.75 64.75	69.56,785 69.64,901 69.56,035 69.85,278 70.15,724 70,51,822 71,01,011 71,08,152	6,00,932 6,30,410 1,61,124 6,59,639 6,68,795 7,01,335 7,86,177 8,87,643	2,89,925 3,00,086 41,334 2,79,366 2,73,627 3,21,090 4,12,268 4,92,171	4·17 4·31 1·17 4·90 3·90 4·55 5 81 6 92	178 187 191 196 199 208 238 264	51.75 52.41 49.52 57.65 50.09 54.23 47.56 44.55

Tanjore District Board railway (3' 3 g" gauge)-

This railway originally extended from Mayavaram to Mutupet and was constructed by the South Indian Railway Company from funds of which half were provided by the Government of Madras from Provincial resources, and the other half by the Tanjore District Board from its Railway Guarantee Fund which was constituted by enhancing by 3 pies, i.e., from 9 pies to the maximum rate of twelve pies per rupee, the

Tanjore District Board railway (3' 31" gauge)-contd.

Local Land Cess raised in the district. From the 1st January 1900 the property of the Government in the Mayavaram-Mutupet line was made over to the Tanjore District Board at the cost price of Rs. 12,34,720. The construction of the extension from Mutupet to Avadaiyavool was then undertaken by the South Indian Railway Company at the cost of the Tanjore District Board from the available balances at the disposal of the Board and further funds raised by debentures, bearing interest at 4 per cent per annum, running for a term of 20 years ending with the 31st December 1920, on the security of the Mayavaram-Mutupet railway and of the receipts from their Railway Guarantee Fund—the Government reserving the right to take over the extension at any time on twelve months' notice by assuming any liabilities undertaken by the Board in the form of debentures to raise the money and repaying any further amounts spent by the Board out of the balances at their disposal.

Progress in opening-

Sect	Sections of railway.												Grand total.	Remarks.
		1							i	7	8	4	5	6
Main line—		,							-	•		1		
Mayavaram to Tiruvallur									1	2-4-94	54:08			
Tiruvallur to Mutupet									1	2-9-99	39.00	!		1
Mutupet to Pattukkottai									1	20-10-02	17:03			
Pattukkottai to Arantangi									1	31-12-03	28.85			
Arantangi to Quarry .									1	23- 8 -06	3.90	ĺ		
									Ì			103.36	i	İ
Mannargudi extension— Nidamangalam to Mannarg	ndi									15-2-15	8:58	8:58		
				_										
				Tor	Vr OF	EN I	A II.B A G	ĸ.	1	•••			111.84	
UNDER CONSTRUCTION OR SA Tiruturaipundi to Vedaran Mayavaram to Tranquebar	iom	(sano	tion	ed on	15th	Octo	ber 191		-		23·12* 17·96+	41.03		* Opening deformed.
	•							•	i				41.08	+ Work sto
					G	RANI	TOTA	L.	1					ped.
												1	153-62	,

Details of construction-

Permanent-way.—The line is laid with first-class 411-lb. flat-footed steel and for a small length only with 40·3-lb. flat-footed second class iron rails on sal, pynkado, west coast teak and jarrah sleepers.

Ballast.—The Mayavaram-Mutupet section is ballasted with laterite and the Mutupet-Aranaugi and Nidamangalam-Mannargudi sections are being ballasted with laterite over sand.

Fencing .- The line is fenced only at stations.

Curves .- The sharpest curve is of 818 feet radius.

Gradients.—The ruling gradient is 1 in 200. Between Adirampatnam and Pattukkottai it is 1 in 160 and between Nidamangalam and Mannargudi, 1 in 400.

Contracts-

as to the vaintenance and working of the line from Mayavaram to Mutupet.

Governmen, of Madras, Public Works Department, Proceedings No. 402-Ry., dated the 12th March 1900, as to the making over of the line, from Mayavaram to Mutupet, to the Tanjore District Board, and the construction and working, under the terms of the contract of 22nd July 1897, of an extension from Mutupet in the direction of Avadaiyarcoil.

Dated the 7th November 1916, between the Secretary of State and the South Indian Railway Company, as to the adoption of the Government financial year for the preparation of accounts.

Main provisions of contract-

(i) Land .- Provided by the Government free of cost to the Company.

- (ii) Government aids—The railway (which is the property of the Tanjore District Board) was constructed, and is maintained and worked by the South Indian Railway Company, who provide the rolling-stock required for the traffic of the branch line.
- (iii) Terms of working.— The line is maintained and worked at the same percentage of its gross (iv) Distribution of profits.— Treceipts as obtains half-yearly on the South Indian Railway Company's undertaking as a whole, including the Tanjore District Board's line, plus the cost of making good any damage affecting the Branch, plus 5 per cent of gross receipts for the use of the Company's rolling-stock, plus interest on the Company's capital outlay at joint stations provided for in clause 12 of the agreement.
- (v) Rates and fares.—

 (vi) Special obligations as to the conveyance of.—

 (a) Mails, troops, police, high Government stores.—

 (b) Government bullion and coin, and the persons in charge the control.—

 (c) Government bullion and coin, and the persons in charge the control.—

 (d) Rates and fares.—

 (a) Mails, troops, police, high Government gauge).

 As noted under South, Indian railway (3' 3\frac{1}{2}").
- (vii) Power of the Government to determine contract.— On 12 months' notice expiring on the 31st De-(viii) Power of the Company to determine contract.— cember in any year.

(ix) Term of contract .- As in (vii) and (viii) above.

Tanjore District Board railway (3' 3}" gauge)-concld.

Statistics of working (Those for the periods prior to 1900 will be found in Appendix 38 to the Balilway
Administration Report for 1907.)—

¥	Year.		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross eamings.	Net carnings.	Percentage of net earnings on total espital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.	
	1			2	3	4	5	6	7	8
900		•		Miles. 54:08	Rs. 26,50,776	2,32,280	Rs. 97,782	3.60	Rs. 83	57 ·9
901 902	:	:	:	54·08 71·11	32,17,511 38, 18,202	2,90,637 3,08,879	1,35,765 1,46,764	4·22 3·84	103 109	58·2 52·4
903 904 905	:	:	:	99.46 99.46 99.46	45,70,190 46,82,763 47,33,090	3,90,747 5,24,490 5,86,680	2,09,167 2,61,364 2,65,302	4·58 5·64 5·61	106 101 113	46·4 50·1 54·7
906 907 908	:	:	:	103·36 103·36 103·36	47,98,375 47,86,554	6,01,066 6,88,181 6,87,571	2,32,833 2,86,169 2,77,134	4.85 5.98 5.77	116 118 128	61·24 54·86 59·6
909 910	:		:	103.36 103.36	48.08,937 48,45.390	6,84,734 7,59,296	2,70, 086 2,96, 545	5·62 6·12	127 141	60·5
911 912 stqr. o	of 19:		:	103°36 103°36	48,90,882	8,36,516 9,06,508 2,87,084	3,63,851 3,84,660 76,659	7:49 7:90 1:57	156 169 176	56·5 57·5 67·6
918-14 914-15 915-16	:	•	•	103°36 111°94 111°94	52,09,745 54.26,680	9,79,466 9,51,392 10,05,288	3,49,568 8,31,880 4,41,256	6·71 6·17 7·35	182 168 178	64·3 64·8 56·1
916-17 917-18	:	÷	:	111·94 111·94		10,19,000 9,41,252	4,85,635 4,73,127	6·58 7·15	175 162	57·2 49·7

Tinnevelly-Quilon (Travancore) railway (British section) (3' 33" gauge)-

Progress	in	opening-	

Sections of railway.							Date of opening.	Miles.	Total.
Tinnovelly to Kallidaikurichi. Kallidaikurichi to the British frontier near Shencottah	:	:	:	:	Тота		1-6-02 1-8-08	19·13 31·28	50:41

Details of construction-

Permanent-way.—The line is laid with 50-lb, bull-headed steel rails on cast iron pots and 56-lb, flat-footed steel rails on wooden sleepers over bridges.

Ballast .- The line is ballasted throughout with broken stone.

Fencing.—The line is fenced at stations and at a few places where it runs close to villages and public reads.

Curves.—The sharpest curve is of 1,432.5 feet radius.

Gradients.-The ruling gradient is 1 in 100.

Dated the 27th June 1901 (known as the "Travancore contract" and supplemental to the principal contract of 1890) between the Secretary of State and the South Indian Railway Company, as to the construction, maintenance and working of the Travancore Branch.

Dated the 21st December 1910 (supplemental to the contracts of 1890 and 1901) between the Secretary of

State and the South Indian Railway Company, medifying the contract of 1901.

Dated the 28rd April 1914 (supplemental to the contracts of 1890, 1901 and 1910) between the Sceretary of State and the South Indian Railway Company, as to the adoption of the Government financial year for the preparation of accounts.

Main provisions of contracts-

- As under South Indian railway (3' 33" gauge). (ii) Government aid .-
-) The line is worked by the South Indian Railway Company at the (iii) Terms of working .-Distribution of profits.— Same proportion of its gross earnings of each half-year as obtains on Branch. The "net receipts" of a half-year so arrived at of the Travancore Branch are (iv) Distribution of profits .-

then applied, in the following manner and order, in payment to the Government of interest-

- (a) on dependences and dependence stock, and
 (b) due on any capital advanced by the Government } for the purpose of the branch; (a) on debentures and debenture stock, and
- (c) the surplus, if any, is divisible between the Government and the Company in the proportion in which the residue of net receipts of the undertaking is divisible as noted against (iii) (d) under South Indian railway (3' 34" gauge).

 If the net receipts of the Branch fall short of the interest charges, the deficiency is first to be

divided between the Native State and British sections of the line in proportion to the capital cost of the sections, and as between the Secretary of State and the Company so much of the deficiency

Tinnevelly-Quilon (Travancore) railway (British section) (3' 31" gauge)-concld.

Main provisions of contract-concld.

as is attributable to the Native State section is to be home by the Secretary of State, and so much as is attributable to the British section is to be borne by the Secretary of State and the Company in the proportion in which any surplus of net receipts over interest charges would have been divisible. The Company's share of any such deficiency may be deducted by the Secretary of State from its share of any surplus profits due under the principal contract for the same half-year or under this contract or the principal contract for the next succeeding half-year.

As between the Government and the Travancore Durbar, the latter has under-written the guarantee of interest to the extent of the capital cost of the portion of the line in its territory; and it has been agreed that any surplus retained by the Government in accordance with the foregoing shall be divided between them in proportion to the respective lengths of the British and Native State sections of the line, and that the share of any deficiency attributable to the latter shall be borne by the Travancore Durbar.

(v) Rates and fares-(vi) Special obligations as to the conveyance of .- . As under South Indian rail-(a) Mails, troops, police, high Government officials and Government stores .-(b) Government bullion and coin, and the persons in charge thereof. -(vii) Services for any Department of the Travancore Durbar .-(viii) Power of the Government to determine contract .-(ix) Power of the Company to surrender contract.—

(x) Term of contract.— Statistics of working-

		OPEN AT	DAT, I	PITAL OUT- NCLUDING E, TO HND YEAR, i.e., ON (i) LINES			CIVES 1M	INTEREST	CHARGES.		ain OB LO aining to year.		ler.	earnings
Year.		AR.	PARTLY UNDER	D (ii) LINES OR WHOLLY CONSTRUCTOR,	GROSE	N ST LABNINGS	L OUTLE LYD (5).			British	section.		mile per	es peuses to
	British section.	Native State section.	British section.	Native State section,			PERCENTAGE OF TOTAL CAPITAL COLUMBS (4) A	British section.	Native State Section,	South Indian Railway Company.	State.	Native State section.	Earnings per	Proportice of
1	2	3	4	5	G	7	ν, '	9	10	11	12	13	14	35
						1								
- 1	Miles.	Miles.	Rs.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	Rs.	Ra.	Rs.	
1902	19.05		31,64,655	75, H1, 63K	17,210	24,039	0.24	1,15,306	2,30,014		-89,267	-2,30,014	81	64.84
1903	49.50			1,01,18,508	1,68,379	89,038	0.71	1,21,989	3,14,967	-15,596	-KU,817	-2,41,505	101	41.18
1904	50.40	57.96	40,40,486	1,15,98,498	3,05,764	1,49,690	0.68	1,39,945	3,95,455	-10,145	91,408	-2,78,167	H5	61.04
1905	50.48 50.48	57.98 57.98	43,40,925 43,62,235	1,17,84,078	4,86,757 4,97,643	2,49,307	1.85	1,44,178	3,32,112	-13,234 -13,039	+ 5,038 - 54,715	-2,18,767 -2,38,270	86	40:78 56:20
1907	50.48	57:18	43,86,635	1.18.07.001	5,97,000	3,04,860	1.88	1,50,213	3,97,953	-10.209	-54,916	-1.78.121	176	44.04
1908	50.48	57.98	43,69,979	1,17,98,653	6,42,077	2,93,380	1.81	1.51.598	3.99.766	-10.481	- 69,436	-1,88,055	in	64 31
1909	50.41	59.05	43,93,309	1,17,97,245	6,50,948	2,95,529	1.83	1,44,330	3,85,580	-11.034	- 54.383	-1,70,972	115	54.00
1910	50:41		14,22,416	1,19,20,000	6,80,080	3,04,658	1.88	1,45,009	8.66,342	-8,351	-62,H3d	-1,63,656	121	55.29
1911	50 41	58.05	41,40,594	1,18,24,590	7,66,515	3,47,453	2.14	1,44,395	3,99,602	- 3,904	- 50,747	-1,46,093	136	64:67
1912	50.41	58.05	44,20,640	1,18,18,994	8,15,945	3,85,321	2.37	1,4H,147	4,00,801	3,119	- 40,957	-1,19,551	115	62.78
1st gr.		î			1					1			i	
of 1913	50'41		44,10,271	1,18,22,921		73,657	0.45	87,040	1,00,190	-1,191		46,333	136	61.00
1913-	50.41	58.05	44,19,508	1,18,74,349	9,03,390	3,55,800	2.18	1,18,201	3,31,151	-3,606	-21,821	- 68,125	100	60.63
14 1914- 15.	50:41	58.05	13,62,872	1,27,03.673	8,92,082	3,65,752	1.26	1,48,459	4,03,006	-5,561	07,837	-2,12,914	168	70.31
1915-	50.41	88405	43,52,433	1,45,43,176	9,85,938	4,61,070	2.12	3,53,788	4,15,840	-3,494	-32,181	-1,32,962	175	59.32
1916- 17.	50.41	58'9 6	48,72,052	1,53,72,846	. 10,27,354	4,18,755	2.12	1,98,565	5,35,742	-6,441	-51,800	- 2,44,350	182	19.34
1917- 78-	50.41	95.96	43,06,451	1,047,41,762	11,44,203	4,77,862	2.26	2,52,310	6,47,573	-4,878	-2,32,376	1,85,267	167	58:35

. Due to abnormal increase in net carnings.

Tinnevelly Quilon (Travancore) railway (Native State section) (3' 32" gauge)-Progress in opening-

Sections of railway.		Date of open- ing.	Miles.	Total.	Grand total
1		2	3	4	5
Main line.— Quilon to Punslur. Punslur to the Frontier of the Travancore State near Shencottah	:	1-6-04 26-11-04	28·28 29·77		
Trivandrum extension.— Quilon to Trivandrum		1-1-18	37-91	#8:05 87:91	
Grand total					95-96
176BB					88

Timevelly-Quilon (Travancore) railway (Native State section) (3' 33" gauge) - concld.

Details of construction-

Permanent-way.—The main line is laid with 50-lb. bull-headed steel rails on east iron pot sleepers, except for a length of 23.50 miles, between Punalur and Shencottah, where there are wooden sleepers of jarrah, irool and teak. The extension is laid with 35-lb. flat-footed steel rails on hard wood sleepers. Ballast.—The main line is ballasted with stone and the extension with gravel.

Fencing.—Only the main line is fenced at stations and at a few places where it runs close to villages and public roads.

Gurres.—The sharpest curve is of 477 feet radius.

Gradients .- The ruling gradient between Trivandrum and Punalur is 1 in 100 and between Punalur and Shencottah 1 in 50.

Contracts-

The line is worked on the same terms as apply to the Tinnevelly-Quilon (Travancore) railway (British section).

Statistics of working-

See under British section.

Morappur-Hosur railway (2' 6" gauge)-

Progress in opening-

	Se	Sections of railway.									Date of opening.	Miles.	Total.
			l						-	 	2	3	4
Morappur to Dharmapuri	,										18-1-06	18.23	
Dharmapuri to Hosur .											15-5-13	54:87	
							Тот	A L					73.4

Details of construction --

Permanent-way.—The permanent-way consists of 30-lb. flat-footed steel rails laid on cross sleepers of

Ballast. The line is ballasted with stone in cuttings and moorum in banks with a stone covering broken to 2" gauge.

Fencing.—The line is unfenced.

Curres .- The sharpest curve is of 955 feet radius.

Gradients .- The ruling gradient is 1 in 67.

Contracts-

The line is the property of Government. A portion of it, from Morappur to Dharmapuri, was worked on behalf of Government by the former Madras Railway Company up to the 31st December 1907. With effect from the 1st January 1908 it was made over to the South Indian Railway Company for maintenance and working as an integral part of their undertaking under the contracts noted under South Indian railway (3' 3\frac{3}{3}'' gauge).

The other portion, from Dharmapuri to Hosur, was constructed by the agency of the South Indian

Railway Company from funds provided by the Secretary of State and as such, no portion of the capital expenditure on this section is debitable to the capital account of the South Indian Railway Company. The capital account is kept separate for the Government of India. This section, however, is worked and maintained by the South Indian Railway Company as part of their undertaking under the contract referred to in the previous paragraph.

Statistics of working, (Those for the periods prior to 1908 will be found in Appedix 38 to the Railway Administration Report for 1907.)—

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., out- lay on (i) lines open and (ii) lines partly or wholly under construction.	Gross ea rnings.	Net earnings.	Percentage of net carnings on total capital outlay given in column (3).	Earnings por mile per week.	Proportion of expenses to carnings.
1	2	3	4	5	6	7	8
	Miles.	Ra.	Rs.	Rs.	1	Ra.	
905	18:53	8,39.999	37,145	3,769	0.45	39	89.85
90 1	18:53	9,22,100	39,270	6,883	i	41	117:53
1910 .	18.53	12,56,128	45,796	9.627	. 0.77	48	78 .98
1912	18.23	20,37.238	41,315 48,998	36	0.10	43 51	59*91 94:73
	18.23	25,88,828	38,998	1	0.10	21	88.13
lst qr. of : 1913.	18 53	28,75,960	11,918	-2,743	;	49	123:02
913-14	73.40	30,32,258	1,19,789	2,887	0.10	31	97.59
914-15	73.40	30,17,575	1,32,583	-23,737	1	85	117.90
915-16	73.40	30.11.243	1,54,913	7.411	0.25	41	95.22
916-17	73.40	29,90,738	1,71,451	14,600	0.49	45	91.48
017-18	73.40	29,99,582	1,80,454	1.170	001	47	99.35

Tirupattur-Krishnagici railway (2' 6" gauge)-

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
1 ,	2	8	4
Tirupattur to Krishnagiri	18-9-05	25:38	95 38

1) etails of construction-

Permanent-way.-The permanent-way consists of 30-lb. flat-footed steel rails laid on cross sleepers of Malabar teak.

Ballast .- The line is ballasted with stone in cuttings and moorum in banks with a stone covering broken to 2" gauge.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 955 feet radius.

Gradients .- The ruling gradient is 1 in 67.

Contracts-

The line is the property of Government, on whose behalf it was worked by the former Madras Railway Company up to the 31st December 1907. With effect from the 1st January 1908 it was made over to the South Indian Railway Company for maintenance and working as an integral part of their undertaking under the contracts noted under South Indian railway (3' 3\frac{3}{8}" gauge).

Statistics of working. (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

Year.	Mileage open at end of each year.	open at end of each year, i.e., out- lay on (i) lines open and (ii) lines partly or wholls		Net earnings	Percentage of net carnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8
• • • • • • • •	Miles.	Rs.	Rs.	Ra.		Ra.	
1908 . 1909 .	25°38 25°38	10,87,305 10,86,836	53,682 45,692	1,23:3 312	0.11	41	97.70
1910	25 38	11.14.660	57.179	10.061	0.03	85 48	99·32 82·40
1911	25:38	11,01,519	65,298	18,179	1.65	49	72-16
1912	25.38	10.98.576	63,563	19,179	1.75	48	69-85
lat qr. of		11,00,015	00,000	12,,	1		30.00
1913.	25.38	10,98,617	11,925	-1,664		36	114.07
1913-14 .	25'38	11,13,720	60,912	5,583	, i	46	109.17
1914-15 .	25'34	11,55,650	65,459	5,139	0:44	50	92.15
1915-16 .	25 88	11,28,324	68,245	16,248	1:44	52	76.19
1916-17 .	25.28	11,02,702	77,787	26,163	2:37	59	66.37
1917-18 .	25.38	10,99,385	92,251	26,3(6	2.39	70	71.48

Manamadura-Sivaganga railway (8' 3%" gauge) —

Sanction to the construction of this line by the South Indian Railway Company on behalf of the District Board of Ramnad was conveyed in Railway Board's Notification No. 336, dated the 2nd December 1915, but the commencement of work has been postponed owing to the present abnormal conditions. arising out of the war.

Section of railway.	Date of opening.	Miles.	Total.
1	2	3	4
Manamadura to Sivaganga (sanctioned on 2nd December 1915)		12.43	12-43

Tinnevelly-Tiruchendur railway (3' 3%" gauge) -

Sanction to the constituation of this line by the South Indian Railway Company on behalf of the District Board of Tinnevelly was conveyed in Railway Board's Notification No. 211, dated the 16th July 1915. The work which was in progress has for the present been stopped, owing to the abnormal conditions on account of the war.

Progress in opening-

Section of railway.	Date of opening,	Miles.	Total.
1	2	3	4
Tinnevelly to Tiruchendur (sanctioned on 16th July 1915)	•••	38.18	38.18

Trichinopoly-Pudukkottai railway (3' 3 g" gauge) ---

Sauction to the construction of this line by the South Indian Railway Company on behalf of the Pudukkottai Durbar was conveyed in Railway Board's letter No. 186 P.-16, dated the 4th August 1916, but work has not yet been started.

Section of railway.	Date of opening.	Miles.	Total.
1	2	3	4
Trichinopoly to Pudukkottai (sanctioned on 4th August 1926)		32.00	32 00

ASSAM-BENGAL RAILWAY SYSTEM.

Chairman.—James Meadows Reudel, Esq.
Managing Director.—Lt.-Col. George Huddleston, C.I.E., V.D.
Offices.—Bishopsgate House, 80, Bishopsgate, London, E. C.
Date of registration of the Company.—18th March 1892.

The construction of the Assam-Bengal railway as a State line was sanctioned in May 1891. The Assam-Bengal Railway Company was formed in England in April 1892 and took over the works commenced by the State. The late Noakhali (Bengal) railway, which was worked by the Assam-Bengal Railway Company up to the end of 1905, was purchased by Government and amalgamated with the Assam-Bengal railway from the 1st January 1906.

Lines comprised in the system-

The Assam-Bengal railway system is made up of-

salaria songar ratinay system is made	up.		-				Open line.	Under construction, or manctioned for	Total.
(a) Assam-Bengal railway (3' 3\frac{3}{4}" gauge) (b) Mymensingh-Bhairab Bazar railway (3' 3\frac{3}{4}")		۰,			:		Miles, 869:41 87:93	construction Miles. 18:17	Miles. 869:41 101:10
(c) Ckaparmukh-Silghat railway (3' 3½" gauge) (d) Katakhal-Lalabasar railway (3' 3½" gauge)	· ·	•		:	÷	÷		50 81 23 30	50·81 23·30
				To	tal		957:34	87:28	1.044-62

Assam-Bengal railway (3' 3%" gauge)-

Sections of rai	lwa	у.						Date of opening.	Miles.	Total.	Grand total.	Romarks.
1								2	8	4	5	8
ain line –			-									
Chittagong Port to Chittagong								8-11-95	1.73			1
Chittagong to Feni								1-7-95	55.80		1	1
Feni to Comilla								1-7-95	\$5.10		Į.	Į.
Comittle to Akhaura Akhaura to Kazimganj Karimganj to Badarpur Badarpur to Damchara								1-1-96	39:41		l	ł
Akhaura to Kanimganj				٠				4-12-96	114.00		ì	1
Karimgani to Badarpur								4-12-96	12.00		l	
Badarpur to Damchara		•	•	•	•	•	٠	23-4-99	*18·53			Of this 8 mi
Dámchara to Lumding Lumding to Nazira	•	•	•	•	•	•	•	1-12-03	†100·29		i	between Ka
Nazira to Lakwa	٠	•	•	٠	•	•	•	1-1-01	141.87		1	chara and Da
Lakwa to Bhojo	٠	•	•	•	•	•	•	15-11-01	10.71			chara were reco
Bhojo to Tinsukia	•	•	•	•	•	•	•	1-2-08	19:72	1	1	tructed in 1915.
Diojo to Tinsukia	•	•	•	•	•	•	•	1-3-08	41.23	573.79	1	Of this, 72 mil
anches-										873.79	İ	botween Damch and Langti
Noakhali branch -												mero reconstruct
Láksám to Noakhali	•	•	•	٠	٠	•	٠	15-5-03	80.46	30.46	١	1916-17.
Chandpur branch-								((30.40	l	
Laksam to Chandpur .								1-7-95	31.62		1	l
managam to Chandput .	•	•	•		,	•	•	1-7-00	21.62	31.62	ì	ì
Tangi branch -								1 1		37.00	ļ	i
Akhaura to Ashugani on the l	of t	bank	of the	Ma	ona			1-4-10	19:05		1	}
Ashugani junction wagon fer	7.					:	:	1-4-15	0.80	1	1	1
Ashuganj junction wagon fer Bhairab Bazar to Daulat Kan	ďi				•		:	1-9-16	2 25	i	1	į.
Daulat Kandi to Tangi .		· ·	·	÷	÷	÷	·	1-7-14	39.07		1	
					•			1		61.17	ĺ	ſ
Sylhet branch-								1 1			ı	
Kulaura to Fenchuganj Ghat								16-4-12	15.10		l	ł
Fenchuganj Ghat to Kusiyara			•	٠	٠		٠	1 7-16	0-95	1	l	
Kusiyara to Sylhet	٠	•	٠		•		٠	1-4-15	15.14		ł	
Silchar branch-								1 1		81.18	1	1
Badarpur to Katakhal .									4.09		İ	1
Katakhal to Silchar	•	•		•	•	•	٠	13-6-98 8-11-98	6.27 12.35		1	1
RECENTAL TO DITCHEL	•	•	•	•	•	•	٠	9-11-90	12.00	18:62	(1
Gauháti branch-								1 1		10 02		
Gauháti Ghát to Gauháti			_		_			1-1-97	1.32		i	
Ganháti to Jamnamukh	:			:	:	:		1-1-97	74:11		1	į.
Jamunamukh to Lanka .			- :	÷	:	:	·	2-1-99	19.11		ł	
Lanka to Lumding (temporary	r eta	tion)					i	1-3-99	15.55			1
Lumding (temporary station)						Ĭ.		20-2-00	3.44			1
Dikhow Extension-			-0	•	·	•	·			113.23		
Sibsagar Read to Behubar .								4-2-18	6.71		1	1
										6.71		
Naginimara extension-												l
Bihubar to Naginimara	•				•			1-9-17	2 29	2.29		1
												1
	G	BAND	TOTA	L							869-41	1

ASSAM-BENGAL RAILWAY SYSTEM-contd.

Assam-Bengal railway (3' 38" gauge) -contd.

Details of construction-

- Permanent-way.—The line is laid with 50-lb. flat-footed steel rails, partly on sål and pynkado, and partly on bastard sål, nageshur, American and Australian sleepers. The Noakhali and Sylhet branches are laid with 414-lb. steel rails on sål sleepers.
- Ballast.—The ballast consists of broken brick, stone and laterite. The whole line has not yet been ballasted.
- Fencing.—The line is fenced between Chittagong Port and Silchar, Láksám and Chandpur, Akhaura and Ashuganj, Gauháti Ghât and Gauháti, and half a mile from Gauháti towards Lumding, and at some stations on the hill section. Tangi branch is being fenced.
- Curren.—The sharpest permanent curve is of 358 feet radius. Temporary curves up to 20 degrees are in use.
- Gradients.—The ruling gradient between Chittagong and Badarpur is 1 in 150; between Badarpur and Lumding, 1 in 60, with a 1 in 37 banking section, 8:54 miles long; between Gauháti and Tinsukia, and Kulaura and Sylhet, 1 in 100; between Láksám and Noakhali, 1 in 200; between Láksám and Chandpur, 1 in 300; between Badarpur and Silchar, 1 in 150; and between Akhaura and Tangi, 1 in 200.

Contracts-

- Dated the 26th April 1892 (called the principal contract), between the Secretary of State and the Assam-Bengal Railway Company, as to the construction, management, maintenance and working, by the Company, of their undertaking.
- Dated the 12th April 1897 (supplemental to the contract of 1892), between the Secretary of State and the Assam-Benyal Railway Company, as to the raising of £300,000 by means of debentures.
- Dated the 6th December 1899, between the Secretary of State and the Assam-Bengal Railway Company, as to the extension of time for the completion of the railway.
- Dated the 4th November 1902, between the Secretary of State and the Assam-Bengal Railway Company, relating to the renewal of debentures issued by the Company.
- Dated the 29th April 1903 (supplemental to the contract of 1892), between the Secretary of State and the Assam-Bengat Railway Company, as to the adoption of 1s. 4d. per rupee as the "prescribed" rate of exchange.
- Dated the 17th April 1906 (supplemental to the contract of 1892), between the Secretary of State and the Assam-Bengal Railway Company, as to the acquisition by the Company of the Noakhali (Bengal) railway for the purpose, and as a part, of their undertaking as from 1st January 1906.
- Dated the 5th March 1914 (supplemental to the contract of 1892), between the Secretary of State and the Assam-Bengal Kailway Company, as to the adoption of the Government financial year for the purposes of accounts.

Main provisions of contracts -

- (i) Land.—Provided by the Government free of cost to the Company.
- (ii) Government aid.—Government guarantee interest in sterling at 3 per cent on the Company's share capital of £ 1,500,000. (Up to 30th June 1898 interest was allowed at 3½ per cent.)
- (iii) Fistribution of profits.—The net earnings to be applied in payment to the Government of-
 - (a) The equivalent in rupees of interest paid on debenture capital; provided that, if the Company's share capital is not less than \(\hat{n}\), the of the total capital expenditure, the rate of interest recovered under this sub-head (on debentures issued previous to 30th June 1898) shall not exceed the rate for the time being applicable to the Company's share capital;
 - (b) the equivalent in rupees of the guaranteed interest paid to the Company in respect of share capital; and
 - (c) interest on the capital contributed, or decreed to be contributed, by the Government, at the same rate as the guarantee for the time being on the Company's capital. But if the capital advanced by Government exceed 1st the total capital expenditure for the time being, the rate of interest on the amount of the excess to be subject to agreement.
 - "Surplus profits", after interest charges have been met, are divided between the Company and the Government in the ratio of the respective amounts of capital expended by them on the undertaking.
- (iv) Rates and fares .- To be approved by the Government.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—To be conveyed on the same general conditions as obtain on State railways of the same gauge, and at rates to be approved by the Government.
 - (b) Government bullion and coin, and the persons in charge thereof.—To be conveyed at special rates to be approved by the Government.
- (vi) Fower of the Government to determine contrast.—The railway and its appurtenances are absolutely the property of the Government, who may determine the contract on the 31st December 1921, or at the end of any succeeding tenth year by giving 12 months' previous notice.

ASSAM-BENGAL RAILWAY SYSTEM-contd.

Assam-Bengal railway (3' 33" gauge) -concld.

Main provisions of contracts-concld.

The Government may also determine the contract at any time on six months' previous notice if the Company fail to fulfil its obligations, or if the line be worked at a loss for three consecutive half-years. On the determination of the contract, the Company is to hand over to the Government the railway and ail its belongings of every description, on repayment by the Government of the amount in sterling, at the par value, of the share capital paid by the Company to the Government, and of any existing liabilities, including debentures incurred with the sanction of the Secretary of State.

- (vii) Power of the Company to surrender contract .- Nil.
- (viii) Term of contract .- Not specified.

Statistics of working-

Year.	Miloage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.		Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Interest.	Gain or loss to the State pertaining to each year.	Earn- ings per mile per week.	Proportion of expenses to earn-ings.	Romarks.
1	2	3	4	5	- 6	7	8	9	10	11
	Miles.	Rs.	Rs.	Res.		Rs.	. Řs.	Ra.	ļ. · · · ·	1
1895 .	129:49	4,27,47,293	2,14,426	-8,017		13,95,606	-14,03,683	64	103-75	The decrease
1896 .	285.90	5,59,03,217	6.18.785	33,238	0.08	23,73,034	- 23,39,796	71	9463	ings is due to
1897 .	000.00	6.94.23,486	9,90,610	72,211	0.10	22,56,279	-21.84.065	63	92.71	
1898 .	879-25	8,32,11,758	13,08,121	54,551	0.07	21,45,275	23,90,724	83	95.83	ture of an
1999	434.66	19,45,26,273	16,19,646	3,22,701	0:37	28,63,084	-25,40,380	75	80.08	extraordinary
1900 .	436.26	10,31,71,869	17,09,955	3,64,364	0.38	33,31,390	-29,67,026	75	78.69	character, e.g.
1901	589-21	11,17,19,504	21,34,252	4,56,654	0.44	35,06,252	- 30,49,598	70	78.60	newals of sleep
1902 .	589.21	11,87,04,959	20,96,058	2,51,118	0.23	38,08,387	-35,53,969	68	87.86	ers, repairs to
1908	740.38	12,40,28,548	23,97,658	4,13,963	0:35	40,71,450	-36,27,187	71	81.48	jetty sheds des-
1904	740 38	12,60,09,639	29,53,962	1,05,390	0.08	11,66,535	-10,61,145	77	96.43	
1905	740.38	12,78,56,722	84,14,295	1,25,615	0.10	42,61,306	-41,35,691	85	96.35	in 1907 and
1906 .	775.28	13.25,20,704	12,20,061	4,27,858	0.30	44,53,682	10.25.824	104	89.86	debentures re-
1907	775 28	13,49,01,242	48.90,137	6,40,254	0.47	37,92,277	-31,52,023	122	86.91	nowed 1908.
1908 .	775.28	13,90,59,050	16.96,729	* 53,309	0.04	41,64,794	- 41,11,485	117	98.87	
1909 .	770.04	14,81,45,488	49,14,993	4.47.461	0.31	43.64.911	-39,17,450	122	90'90	i
1910 .	789.89	14,45,68,076	51,70,052	7,84,033	0.21	44,08,319	-36,24,286	126	84.83	
19 11 .	789 89		55,76.145	11,37,710	₽.77	45,86,405	-34,44,695	1:16	79:50	
1912 .	804 99	15,04,29.093	64,50,146	17,29,637	1.12	46,70,106	29,40,469	155	73 18	†Decrease in the
lstqr. o	fi	1								mileage is due
1913.	804.99		18,68,616	5,96,938	0.30	11.75,440	- 5,78,50 ₂	173	66.99	to the exclu-
1913-14	. 811.73		70,42,793	22,71,129	1.45	49,09,954	-26, 18,825	167	67.75	sion, of the hil
1914-15	847 98		68.85.473		1'07	51,33,33	-34,01,928	156	74.85	section under
1915- 16	. +807.92		67.47.378	14,90,502	0.00	52,48,999	-37,58,497	161	77 91	reconstruction
1916-17	823.12		67,38,485	14,79,329	0.69	51.39,317	-86,59,988	157	78:04	1
1917-18	869 41	16,89,41,111	78,60.661	15,22,922	1.08	54,65,160	-36,42,238	159	75.25	

Mymensingh-Bhairab Bazar railway (31 32" gauge) -

Date of registration of the Company-1915.

Sanction to the construction of this line was conveyed in Railway Board's Notification No. 115, dated the 5th May 1915. The line is being constructed by the Mymensingh-Bhairab Bazar Railway Company.

Sections of railway.	Date of opening.	Milon.	Total.	Grand total
1	2	3	•	5
Bhairab Bazar to Kishorganj	20-8-17	31.25		
Kishorganj to Gourigram Junction	1-9-17	30.21		
Mymensingh, vid Gaurigram and Shamgunj Junctions, to Netrakona	16-7-17	26.47		1
Total open mileage				
Under construction or sanctioned for construction-			87.93	
Shamganj to Jaria Jhanjail (sanctioned on 5th May 1915)		18.17	18-17	
GBAND TOTAL .		•		101.10

ASSAM-BENGAL RAILWAY SYSTEM -concld.

Mymensingh-Bhairab Bazar railway (3' 3% gauge)-coneld.

Details of construction-

Permanent-way.—The permanent-way consists of 50-lb steel rails, partly of Assam-Bengal railway type and partly of British standard section, laid on sal sleepers.

Ballast .- The line has not been balasted yet.

Fencing .-- Only station yards, level crossings and selected portions of the line are to be fenced.

Curves .- The sharpest curve has a radius of 1,146 feet.

Gradients.—The ruling gradient is 1 in 200 on approaches to bridges with headways for navigation.

Contract.

The line is owned by the Mymensingh-Bhairab Bazar Railway Company by whom it is being constructed.

The open portion is being worked by the Assam-Bengal Railway Company under the terms of a contract which is under consideration

Statistics of working-

Your.	open at end of the year.	Total capital outlay, including suspense, to end of the year, i.e., outlay en (i) lines open and (ii) lines partly or wholly under construction.	Gross	Net earmings.		(+), or	Total income.	Percentage of total income on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	9	I0	11
	Miles.	Re,	Rs.	Ra			Rs.		Rs.	
1917-18 .	87.9 3	99,22,594	3,10, 46 6	1,55,233	1.20		1,55,233	1 56	68	5 9 ·00

Chaparmukh-Silghat railway (3' 33" gauge) --

Date of registration of the Company-1915.

Sanction to the construction of this line by the Assam-Bengal Railway Company, on behalf of the Chaparmukh-Silghat Railway Company was conveyed in Railway Board's Notification No. 276, dated the 5th October 1915.

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
1	2	3	4
Chaparmukh to Silghat (sanctioned on 5th October 1915)		50.81	50-81

Katakhal-Lalabazar railway (3' 3% gauge)—

Date of registration of the Company-1915.

Sanction to the construction of this line by the Assam-Bengal Railway Company, on behalf of the Katakhal-Lalabazar Railway Company was conveyed in Railway Board's Notification No. 451-P., dated the 9th March 1916.

Section of railway.	Date of opening.	Miles.	Total.
1	2	3	4
Katakha to Lalabazar (sanctioned on 9th March 1916)	 	33.80	28-80

BENGAL AND NORTH-WESTERN RAILWAY SYSTEM.

Chairman.—Alexander Izat, Esq., C.I.E.
Managing Director.—E. A. Neville, Esq.
Offices.—287, Gresham House, Old Broad Street, London, E.C.
Date of registration of the Company.—28rd October 1882.

Lines comprised in the system.—The Bengal and North-Western railway system	is mad	e up of-	_
(a) Bengal and North-Western railway (3'3\frac{3}{4}" gauge)			Miles. 1,241.65
(b) Tirhoot railway (3'3)" gauge)			804'00
•	otal .		2,045-65
Bunning powers— Home line over Foreign lines— Cawnpore to Aishbagh, Cawnpore-Burhwal (3'34" gauge) link, Oudh and Rohilkhand railway Aishbagh to Daliganj, Lucknow-Bareilly (3'34" gauge) railway Daliganj to Burhwal, Cawnpore-Burhwal (3'34" gauge) link, Oudh and Rohilkhand railway Benarec Cantonment to Benares City, and Benares Cantonment to outer signal on the Benares Alahabada extension, Oudhand Rohilkhand railway (3'34" gauge) At Sitapur within the boundary of the Kohilkand and Kumaon railway		engor and trains.	Miles. 45.08 3.40 34.57 2.18 0.85
	Total	***	86:08
Bengal and North-Western railway (8' 3% gauge)-			

Main line— Soneporo, vid Chupra, Savan and Gorakhpur, to Mankapor Mankapur to Gonda Gonda to Colonelganj Colonelganj to Jarwal Road. Jarwal Road to Gogra Ghat Gogra Ghat Gogra Ghat Gogra Ghat to Chowka Ghat Chowka Ghat to Burhwal Beaches and Extensions— Digha Ghat branch— Sonepore to Palezaghat Mashrak branch— Chupra to Mashrak Maharajganj branch— Daronla to Maharajganj Savan—Caplainganj branch— Savan to Thawe Tamkuni Road to Captainganj Bagaha branch— Gorakhpur to Chhitanui Ghat. Chhitanui Ghat to Bagaha Gorakhpur-Gowla loop— Gorakhpur-Gowla loop— Gorakhpur to Uska Basar Uska Bazar to Barhii. Barhii to Tulispar to Bairanpur Balranpur to Gonda Jarwa branch— Gainsari to Jarwa Ajodhya branch— Gainsari to Jarwa Ajodhya branch— Gainsari to Jarwa Ajodhya branch— Gainsari to Jarwa Ajodhya branch— Gainsari to Jarwa Ajodhya branch— Gainsari to Jarwa Ajodhya branch— Gainsari to Jarwa Ajodhya branch— Gainsari to Barain Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat)	15-1-85 2-4-84	3		
Main Ins.— Soughore, rid Chupra, Savan and Gorakhpur, to Mankapur Mankapur to Gonda Gonda to Colonelgan; Colonelgan to Jarwal Road. Jarwal Road to Gogra Child. Gogra Child. Gorar Child. Chowka Ghild to Burhwal Branches and Ectensians.— Digha Ghild branch— Bongore to Palezaghat Mashrak branch— Chupra to Mashrak Maharajgan j branch— Daronda to Maharajgan j Savan—Caplaingan j branch— Savan to Thawe Thawe to Tamkuhi Road Tamkuhi Road to Captaingan j Bagaha branch— Gorakhpur to Chiltanui Ghild. Chiltanui Ghild to Bagaha Gorakhpur-Gonda loop— Gorakhpur-Gonda loop— Gorakhpur to Uska Bazar Uska Bazar to Barhni Barhni to Tulsipur Tulsipur to Balrámpur Balrámpur to Gonda Jarva branch— Gainsari to Jarwa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Chat) Naupalganj Road branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) branch— Mankapur to Nawabganj (Gonda)	2-4-84	1	4	8
Mankapur to Gonda Gonda to Colonelganj Colonelganj to Jarwal Road Jarwal Road to Gora Ghat Gora Ghat to Chowka Ghat Chowka Ghat to Burhwal Beanches and Edensians— Diaha dibat branch— Somepore to Palezaghat Mashrak branch— Chupra to Mashrak Maharajganj branch— Daronla to Maharajganj Saran—Caplainganj branch— Savan to Thawa Thawe to Yamkuhi Road Tamkuhi Road to Captainganj Bagaha branch— Gorakhpur to Chhitanui Ghat Chhitanui Ghat to Bagaha Gorakhpur-Gonda loop— Gorakhpur to Uska Bazar Uska Bazar to Bahni Barhai to Tulsipur Tulsipur to Uska Bazar Uska Bazar to Barhni Barhni to Tulsipur Tulsipur to Gonda Jarua branch— Gainsari to Jarwa Ajodhya branch— Gainsari to Jarwa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Chat) Naupalganj Road branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Chat)	2-4-84	1		
Gonda to Colonelganj Colonelganj to Jarwal Road. Jarwal Road to Gogra Ghât Gogra Ghât to Chowka Ghât Chowka Ghât to Burhwal Brunches and Extensions— Digha Ghât brunch— Sonepore to Palezaghat Mashrak brunch— Chupra to Mashrak Makaraiganj brunch— Daronda to Maharaiganj Saran—Capplainganj brunch— Savan to Thawe Thawe to Tamkuhi Road Tamkuhi Road to Captainganj Bagaha branch— Gorskhpur to Chhitanui Ghât. Chhitanui Ghât to Bagaha Gorakhpur to Chhitanui Ghât. Chinianni Ghât to Bagaha Gorakhpur to Uska Bazar Uska Bazar to Barhni Barhni to Tulsipur Tulsipur to Balrámpur Balrámpur to Gonda Jarva branch— Gainsari to Jawa Ajodhya branch— Gainsari to Jawa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Naipalganj Road branch— Mankapur (Gonda) to Ajodhya (Lakarmandi Ghat) Naipalganj Road branch—		221 44		ĺ
Jarwal Road to Gogra Ghât Gogra Ghât to Chowka Ghât Chowka Ghât to Burhwal Branches and Extensions— Digha Ghât branch— Sonepore to Palezaghat Mashrak branch— Chupra to Mashrak Makaraiganj branch— Daronda to Mahuraiganj Saran—Capplainganj branch— Savan to Thawe Thawe to Tamkuhi Road Tamkuhi Road to Captainganj Bagaha branch— Gorskhpur to Chhitanui Ghât. Chiitanui Ghât to Bagaha Gorakhpur-Gonda loop— Gorakhpur-Gonda loop— Gorakhpur to Uska Bazar Uska Bazar to Barhni Barhni to Tulsipur Tulsipur to Balrampur Balrampur to Gonda Jarna branch— Gainsari to Barhni Barhni to Tulsipur Tulsipur to Balrampur Balrampur to Gonda Jarna branch— Gainsari to Jawa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Naupalganj Road branch— Mankapur (Gonda) to Ajodhya (Lakarmandi Ghat)		17.36	1	
Jarwal Road to Gogra Chât Gogra Chât to Chowka Ghât Chowka Ghât to Burhwal Branches and Estensions— Digha Ghât branch— Sonepore to Palezaghat Mashrak branch— Chupra to Mashrak Maharaiganj branch— Daronda to Maharaiganj Savan—Caplainganj branch— Savan to Thawe Thawe to Tamkuhi Road Tamkuhi Road to Captainganj Bagaha branch— Gorakhpur to Chattanui Ghât. Chiltanui Ghât to Bagaha Gorakhpur to Uska Bazar Uska Bazar to Barhni Barhni to Tukipur Tulsipu to Balrampur Balrampur to Gonda Jarua branch— Gainsart to Barhni Barhni to Tukipur Tulsipur to Balrampur Balrampur to Gonda Jarua branch— Gainsart to Jawa Ajodaya branch— Gainsart to Jawa Ajodaya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Naupalganj Road branch— Mankapur (Gonda) to Ajodhya (Lakarmandi Ghat)	29-10-91	17:89	ĺ	
Gours Ghat to Chowka Ghat Chowka Ghat to Burhwal Granches and Ectensions— Disha dilatt branch— Sonepore to Palezaghat Mashrak branch— Chupra to Mashrak Mashrak branch— Daronia to Mainraiganj Saran—Caplainganj branch— Saran to Thawa Thawa to Tamwa Thawa to Tamkuhi Road Tamkuhi Road to Captainganj Bagaha branch— Gorakhpur to Chhitanni Ghat. Chhitanni Ghat to Bagaha Gorakhpur-Gonda loap— Gorakhpur to Uska Bazat Uska Bazar to Bahni. Barhai to Tulsipur Tulsipur to Balrampur Balrampur to Gonda Jarua branch— Ginsari to Jarwa Ajodhya branch— Ginsari to Jarwa Ajodhya branch— Mamkapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Naupalganj Road branch— Mamkapur (Gonda) to Ajodhya (Lakarmandi Ghat) Naupalganj Road branch—	1-2-92 18-12-96	10.74		
Branches and Eetensians— Digha Ghat branch— Sonepore to Palezaghat Mashrak branch— Chupra to Mashrak Maharajganj branch— Darona to Mashrak janj Saran—Caplainganj branch— Savan to Thawo Thawa to Tankuhi Road Tankuhi Road to Captainganj Bagaha branch— Gorakhpur to Chhitanui Ghat. Chhitanui Ghat to Bagaha Gorakhpur-Gonda loop— Gorakhpur-Gonda loop— Gorakhpur to Uska Bazar Uska Bazar to Barhni Barhni to Talsipur Talsiput to Balrampur Balrampur to Gonda Jarun branch— Gainsari to Jarwa Ajodaya branch— Gainsari to Jarwa Ajodaya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Naupalganj Road branch—	24-12-98	2·78 3·67		
Branches and Ectensions— Disha disht branch— Sonepore to Palezaghat Mashrak branch— Chupra to Mashrak Mashrak branch— Darona to Mashrak Mashrak branch— Darona to Mashrak Mashrak branch— Savan to Thawo Thawo to Tamkuhi Road Tamkuhi Road to Captainganj Bagaha branch— Gorakhpur to Chhitanni Ghât. Chhitanni Ghât to Bagaha Gorakhpur-Gonda loap— Gorakhpur to Uska Bazar Uska Bazar to Barhni Barhni to Tulsipur Tulsipur to Balrampur Balrampur to Gonda Jarua branch— Gainsari to Jarwa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Naupalganj Road branch— Mankapur (Gonda) to Ajodhya (Lakarmandi Ghat) Naupalganj Road branch—	24-11-96	2.88	1	
Sonepore to Palezaghat Mashrak branch - Chupra to Mashrak Maharajganj branch- Daronda to Maharajganj Saran - Caplainganj branch- Savan to Thawe Tamkuhi Road Tamkuhi Road to Captainganj Bagaha branch - Gorakhpur to Chhitanui Ghát. Chhitanui Ghát to Bagaha Gorakhpur to Uska Bazar Uska Bazar Uska Bazar Uska Bazar to Barhni Harhni to Tulsipur Tulsipur to Uska Bazar Uska Bazar to Barhni Harhni to Tulsipur Tulsipur to Uska Bazar Uska Bazar to Barhni Harhni to Tulsipur Tulsipur to Balrámpur Balrámpur to Gonda Jarna branch - Gainsari to Jarwa Ajodhya kranch - Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Napalganj Road branch - Mankapur (Gonda) to Ajodhya (Lakarmandi Ghat)	-		276.76	
Sonepore to Palezaghat Mashrak branch — Chupra to Mashrak Maharajanaj branch — Daronda to Maharajanaj Savan — Caplainganj branch — Savan to Thawe Thawe to Tamkuhi Road Tamkuhi Road to Captainganj Bagaha branch — Gorakhpur to Chhitanui Ghât. Chiltanii Ghât to Bagaha Gorakhpur to Uaka Bazar Uaka Bazar to Barhni Barhni to Talsipur Tulsipu to Uaka Bazar Uaka Bazar to Barhni Barhni to Talsipur Tulsipur to Balrampur Balrampur to Gonda Jarna branch — Gainsari to Jawa Ajodhya hranch — Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Napaleanj Road branch — Mankapur (Gonda) to Ajodhya (Lakarmandi Ghat)		1		
Chupra to Mashrak Maharajanaj branch— Daronla to Maharajanaj Saran - Captainganj branch— Savan to Thawo Thawa to Tamkuhi Road Tamkuhi Road to Captainganj Bagaha branch— Gorakhpur to Chhitauni Ghât. Chhitauni Ghât to Bagaha Gorakhpur-Gonda loop— Gorakhpur-Gonda loop— Gorakhpur to Uska Bazar Uska Bazar to Barhni Barhni to Tulsipur Tulsipur to Balrampur Balrampur to Gonda Jarua branch— Gainsari to Jarwa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Naupalganj Road branch—	15-1-85	6 10		
Chupra to Mashrak Maharajan ji branch— Daronda to Maharajan j Saran — Caplaingan ji branch— Savan to Thawo Thawa to Tamkuhi Road Tamkuhi Road Tamkuhi Road Tamkuhi Road Tamkuhi Road Bagaha branch— Gorakhpur to Chhitanui Ghât. Chhitanui Ghât to Bagaha Gorakhpur-Gonda loop— Gorakhpur-Gonda loop— Gorakhpur to Uaka Bazar Uaka Bazar to Barhni Barhni to Talsipur Talsipur to Balrampur Balrampur to Gonda Jarua branch— Gainsari to Jarwa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Naupalganj Road branch—	-		6.10	
Maharajganj branch— Daronda to Maharajganj Sarau—Caplainganj branch— Savan to Thawe Tamkuhi Road Tamkuhi Road to Captainganj Bagaha branch— Gorskhpur to Chhitanni Ghát. Chhitanni Ghát to Bagaha Gorakhpur-Gonda loop— Gorakhpur-Gonda loop— Gorakhpur to Uska Bazar Uska Bazar to Barhni Barhni to Tulsipur Tulsipur to Uska Bazar Uska Bazar to Barhni Barhni to Tulsipur Gainsari to Balrámpur Balrámpur to Gonda Jarna branch— Gainsari to Jawa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Naupalganj Road branch—	20-3-10	26-17		
Daronda to Maharajganj Sarau — Caplainganj branch— Savan to Thawe Thawe to Tamkuhi Road Tamkuhi Road to Captainganj Bagaha branch— Gorakhpur to Chhitanui Ghát. Chiltanui Ghát to Gagaha Gorakhpur to Uska Bazar Uska Bazar Uska Bazar to Barhni Barhni to Tulsipur Tulsipur to Uska Bazar Tulsipur to Uska Bazar Uska Bazar to Barhni Barhni to Tulsipur Tulsipur to Balrámpur Balrámpur to Gonda Jarac branch— Gainsari to Jawa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Naupalganj Road branch—	-		26.17	
Sarau - Caplaingani branch - Saxan to Thawe Thawe to Tamkuhi Road Tamkuhi Road to Captainganj Bagaha branch - Gorakhpur to Chhitanni Ghât. Chhitanni Ghât to Bagaha Gorakhpur-Gonda Hoop - Gorakhpur to Uaka Bazar Uaka Bazar to Barhni Barhni to Tulsipur Tulsipu to Balrampur Balrampur to Gonda Jarua branch - Gainsari to Jarwa Ajodhya branch - Mankapur to Nawabgani (Gonda) Nawabgani (Gonda) to Ajodhya (Lakarmandi Ghat) Naipalagani Road branch -	1-4-07	3.90	1	
Saxan to Thawe Thawe to Tamkuhi Road Tamkuhi Road to Captainganj Bagaha branch— Gorakhpur to Chhitanni Ghât. Chhitanni Ghât to Bagaha Gorakhpur-Gonda loop— Gorakhpur to Uaka Bazar Uaka Bazar to Barhni Barhni to Tulsipur Tulsipur to Balrampur Balrampur to Gonda Jarua branch— Gainsari to Jarwa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Nawabganj Road branch—	-		3.90	
Bagaha branch— Gorakhpur to Chhitanui Ghât. Chiitanui Ghât to Bagaha Gorakhpur-Gonda loop— Gorakhpur to Uska Bazar Uska Bazar to Barhni Barhni to Tulsipur Tulsipu to Balrampur Balrampur to Gonda Jarun branch— Gainsari to Jarwa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Naupalganj Road branch—	1-4-07	17:82	1	
Bagaha branch— Gorakhpur to Chhitanni Ghât. Chiitanni Ghât to Bagaha Gorakhpur-Gomda loop— Gorakhpur to Uska Bazar Uska Bazar to Bahni. Barhni to Tulsipur Tulsipur to Balrampur Balrampur to Gonda Jarua branch— Gainsari to Jarwa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Chat) Naipalanj Road branch—	15-3-13	22 60		
Bagaha branch— Gorakhpur to Chhitanui Ghât. Chiitanui Ghât to Bagaha Gorakhpur-Gonda loop— Gorakhpur to Uska Bazar Uska Bazar to Barhni Barhni to Tulsipur Tulsipu to Balrampur Balrampur to Gonda Jarun branch— Gainsari to Jarwa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Naupalganj Road branch—	26-4-13	38.86		
Gorakhpur to Chhitanui Ghât. Chiltanui Ghât to Bagaha Gorakhpur-Gonda loop— Gorakhpur to Uska Bazar Uska Bazar to Barhni Barhni to Tulsipur Tulsipur to Balrampur Balrampur to Gonda Jarna branch— Gainsari to Jawa Ajodaya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Naupalganj Road branch— Naupalganj Road branch—	-		79-28	
Gorakhpur-Gonda loop— Gonakhpur to Uska Bazar Usku Bazar to Barhni Barhni to Tulsipur Tulsipur to Balrampur Balrampur to Gonda Jarna branch— Gainsari to Jarwa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Chat) Napalganj Road branch—	7-2-07	59:88		
Gorakhpur to Uska Bazar Usku Bazar Usku Bazar Usku Bazar to Barhni Harhni to Tulsipur Tulsipur to Balrámpur Balrámpur to Gonda Jarna branch— Gainsari to Jarwa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Naipalganj Road branch—	9-5-12	2:38		
Gorakhpur to Uska Bazar Usku Bazar Usku Bazar Usku Bazar to Barhni Harhni to Tulsipur Tulsipur to Balrámpur Balrámpur to Gonda Jarna branch— Gainsari to Jarwa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Naipalganj Road branch—			62.26	
James branch— Gainsari to Jawa Ajodhya branch— Mankapar to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat)	15-12-86	39.66		
James branch— Gainsari to Jawa Ajodhya branch— Mankapar to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat)	15-1-05	30.88	1	
Janus branch— Gainsari to Jawa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Nawabganj (Road branch—	15-1-06	24.04		
James branch— Gainsari to Jawa Ajodhya branch— Mankapar to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat)	1-6-98	18.12	1	
Janus branch— Gainsari to Jawa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Nawabganj (Road branch—	15-12-96	23.08	1	
Gainsari to Jarwa Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Chat) Naipalganj Road branch—	,-		185-81	
Ajodhya branch— Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Chat) Nawabganj (Road branch—	12-4-06	9.16	i	
Mankapur to Nawabgani (Gonda) Nawabgani (Gonda) to Ajodhya (Lakarmandi Ghat) Naipalgani Road branch—	15-9-00		9 16	
Mankapur to Nawabganj (Gonda) Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat) Naspalganj Road branch—	1	1		
Nawabganj (Gonda) to Ajodhya (Lakarmandi Ghat)	2-4-84	13.48		
Naipalganj Road branch-	1-12-91	5.02	10.50	
Naipalganj Road branch-	; -		18.53	
	2-4-84	37 47	1	
Gonda to Bahraich Pahraich to Naipálganj Road	15-12-86	83.15		
Replated to Mathathani mose			70.62	
Katarnian Ghát branch-		1		
Nánpára to Mihirpurwa	15-12-96	14.79	- 1	
Nanpara to Mihirpurwa Mihinpurwa to Katarnian Ghat	25-3-98	24.58	42.07	
Sitapur branch-	1			
Burhwal to Sitapur	18-3-11	58.91	58-91	
Carried over				782-5

BENGAL AND NORTH-WESTERN RAILWAY SYSTEM-contd.

Bengal and North-Western railway (3' 38" gauge)-contd.

Progress in opening-concld.

Sections of railway.	Date of opening.	Miles.	Total.	Grand total
1	2	3	4	5
Brought forward .				789-5
Chupra-Benarce-Allahabad branch— Chupra to Revelgani				1
Chupra to Revelgani Revelgani to Manjhi	15-1-91	7.75		1
Manjhi to Bakulha	4-2-12	4.57		l
Bakulha to Ballia	12-5-99	26.85		1
Ballia to Phenha	15-3-99	6.56		ŀ
Phephna to Ghazipur Ghat.	10-3-03	32.02		ł
Ghazipur Ghat to Aunrihar, Ganges-Gogra Doub lines	15-3-99	26 88		1
Aunrihar to Benares .	15-3-99	19 87		l
Benares to Madhosingh .	1-3-09	28:60		ł
Madhosingh to Jhusi .	21-4-09	41.95		
Jhusi to Izat bridge)	1-11-12	2.38		1
Izat bridge to Allahabad City	8-5-13	2.29		1
Mirzapur Ghat extension— Madhosingh to Mirzapur Ghat. Marzapur Ghat to Chilh Ganges-Gogra Doub lines	1-3-09 25-10-12	6.88 0.62	200.76	
•	20.10		7:56	i
Bhatni Benares chord—	1	i	• • • •	1
Bhatni to Turtipar	15-12-96	17:23		ł
Turtipar to Mau Mau to Aunrihar Ganges-Gogra Doab lines	8-6-98	26.00		i
Mau to Augribar)	15-3-99	35.81		l
Barhaj branch -	. 1		79.04	i
Salimpur to Barbaj	1-12-97	20.00		1
Sammpur to Darna)	1-12-97	13.69		{
Dobriohat branch-	1		13.09	j
Phephau to Indara)	15-3-99	31:39		
Indara to Dohrighat	21-3-01	21 92		
1			53:01	
Shahganj branch-			20.01	1
Man to Azamgarh Ganges-Gogra Doab lines	8-6-98	26.83		1
Azamgarh to Shahganj	14-2-03	34.95		1
	-		61.78	1
Amerikar to Janupur	31.0.4	00.51		1
Vincinat to sumbar .)	21-3-04	36.24	00.14	1
			26.54	450.0
		•		452.0
TOTAL .		•••		1,241.6
		•••	•••	1,341

Details of construction-

Permanent-way.—The main line, the Sitapur branch and the sections from Chupra to Incheape bridge and Bhatai to Turtipar are laid with 50-lb. steel rails mostly on sal sleepers. The rest of the line north of the Gogra is laid with 41½-lb. steel rails mostly on sal sleepers. The Ganges-Gogra Deab main lines from Turtipar to Allahabad City and Amerikar to Incheape bridge are laid with 50-lb. steel rails on sal sleepers, and the branches with 41½-lb. steel rails on sal sleepers.

Ballast. - The whole line, except quite new constructions, is ballasted with kunkur, broken brick or shingle.

Fencing.—The main line and the section from Chupra to Revelganj are fenced.

Curves.—The sharpest curve is of 900 feet radius on the Gorakhpur division.

Gradients.—The ruling gradient is 1 in 300. On the various river ghat lines the gradients are steeper.

Contracts-

Dated the 12th December 1882 (called the original contract), between the Secretary of State and the Bengal and North-Western Railway Company, as to the construction and working by the Company of the Bengal and North-Western railway.

Dated the 22nd February 1886 (supplemental to and modifying in some respects the contract of 1882), between the Secretary of State and the Bengal and North-Western Railway Company.

Dated the 18th July 1890, between the Secretary of State and the Bengal and North-Western Railway Company, as to the taking over and working by the Company of the State railways known as the Tirhoot railway in conjunction with the Company's railway.

BENGAL AND NORTH-WESTERN RAILWAY SYSTEM-confd.

Bengal and North-Western railway (3' 31" gauge) -contd.

Contracts - concld.

- Dated the 19th December 1894 (supplemental to the contracts of 1882, 1886 and 1890), between the S. cretury of State and the Bengal and North-Western Railway Company, providing for the further extension of the Company's system of railways and for the exercise by the Company of running powers for through traffic over the Campore-Burhwal (3' 34" gauge, link of the Oudh and Rohilkhand railway.
- Dated the 12th December 1895 (supplemental to the contracts of 1890) and 1894), between the Secretary of State and the Bengal and North-Western Railway Company, modifying in some respects the contract of 1890 relating to the Tirhoot railway.
- Dated the 23rd July 1896 (supplemental to the contracts of 1882, 1896, 1890, 1894 and 1895), between the Secretary of State and the Bengal and North-Western Railway Company, providing for further extensions of the Company's railway and of the Tirhoot railway.
- Dated the 15th January 1903 (supplemental to the contracts of 1882, 1886, 1894 and 1896), between the Secretary of State and the Bengal and North-Western Railway Company, providing for further extensions of the Company's railway.
- Dated the 24th April 1903 (supplemental to the contracts of 1882, 1890 and 1895), between the Secretary of State and the Bengat and North-Western Railway Company, as to the adoption of 1s. 4d. per rupee as the "prescribed" rate of exchange.
- Dated the 14th December 1905 (supplemental to the contracts of 1882, 1890, 1895, 1896 and 1903), between the Secretary of State and the Bengal and North-Western Railway Company, continuing with modifications the contract of 1890 relating to the Tirhoot railway and modifying in some respects the contract of 1882 relating to the Company's railway.
- Dated the 7th October 1907 (supplemental to the contracts of 1882, 1886, 1890, 1894, 1895, 1896, 15th January and 24th April 1903, and 1905), between the Secretary of State and the Bengal and North-Western Railway Company, providing for further extensions of the Company's railway.
- Dated the 1st October 1908 (supplemental to the contracts of 1852, 1886, 1890, 1894, 1895, 1896, 15th January and 24th April 1903, 1905 and 1907), between the Secretary of State and the Bengal and North-Western Railway Company, for providing for a further extension of the Company's railway from Chupra to Mashrak.
- Dated the 9th July 1909 (supplemental to the contracts of 1882, 1886, 1890, 1894, 1895, 1896, 15th January and 24th April 1903, 1905, 1907 and 1908), between the Secretary of State and the Brigat and North-Western Railway Company, providing for a further extension of the Company's railway, from Burhwal to Sitapur.
- Dated the 13th October 1910 (supplemental to the contracts of 1882, 1896, 1890, 1894, 1895, 1896, 15th January and 24th April 1903, 1905, 1907, 1908 and 1909), between the Secretary of State and the Bengal and North-Western Railway Company, providing for extensions of the Company's railway connecting the Company's Main lines with the Company's Doab lines and with the Tirhoot railway, respectively, by bridges over the Gogra and Gundak rivers.
- Dated the 7th December 1910 (supplemental to the contracts of 1882, 1886, 1890, 1894, 1895, 1896, 15th January and 24th April 1903, 1905, 1907, 1908, 1909 and 13th October 1910), between the Secretary of State and the Bengal and North-Western Railbeag Company, providing for a further extension of the Company's railway from Thawe to Captainganj.
- Dated the 13th March 1914 (supplemental to the contracts of 1882, 1886, 1890, 1894, 1895, 1896, 15th January and 24th April 1903, 1905, 1907, 1908, 1909, 13th October and 7th December 1910), between the Secretary of State and the Bengal and North-Western Railway Company, providing for the accounts for purposes of these contracts being prepared from 1st April 1913 for the financial year instead of for the calendar year.
- Bengal and North-Western Railway Company's Act of 1914, authorising the formation of a "Capital Redemption Fund" out of the general revenues of the Company; the sums at credit of this fund to be utilised in purchasing and cancelling the Company's first or second preference stock.

Main provisions of contracts-

- (i) Land.—Provided by the Government free of cost for the Company's railway; and at the cost of capital for the Trihoot railway undertaking.
- (ii) Government aid .- Nil.
- (iii) Terms of working.—The Company's railway and the Tirhoot railway undertaking are worked conjointly; but the accounts of each are kept separate and distinct, except those relating to working expenses, other than maintenance, Abstract A.

BENGAL AND NORTH-WESTERN RAILWAY SYSTEM-contd.

Bengal and North-Western railway (3' 3}" gauge) -contd.

Main provisions of contracts-contd.

In addition to the ordinary working expenses and usual contributions to the State Railway and Company's Provident Institutions, the working expenses for each half-year include interest at 4 per cent per annum on all ontlay up to the 31st December 1904 expended on "rolling-stock," "steamers and barges and landing stages," "stores," and "stations and offices, station machinery, staff quarters and all other works including permanent-way at Sonepore" for joint use, and on all outlay subsequent to that date up to the close of each half-year incurred on the same matters and on "workshops and store buildings, etc." or any other works used for joint purposes. The interest so charged is to be oredited to the respective revenue accounts of the Company's railway and the Tirhoot railway undertaking in the ratio of the contributions of capital made to the joint accounts by each.

The working expenses of the open system, exclusive of the charges for maintenance of way so works and stations, other than those for general supervision, are divided between the Company's railway and the Tirhoot railway undertaking in proportion to their respective gross earnings.

The charges for maintenance of way, works and stations, other than the charges for general supervision are appropriated and allotted to the Company's railway or the undertaking on the basis of the actual expenditure incurred by each.

- (iv) Distribution of profits.—As to the Company's railway, under the original contract of 1882 any surplus over 6 per cent was to be equally divided between the Government and the Company; but this provision was rescinded by the contract of the 22nd February 1886, which leaves the profits entirely in the hands of the Company.
 - As to the open system, after deducting half-yearly from the gross carnings of the Company's railway and of the undertaking, respectively, the working expenses noted under (iii), the balance of the gross earnings (termed net revenue) in the case of the Company's line belongs to the Company, and in the case of the Tirhoot railway undertaking is applied in the following manner and order:—
 - (a) in payment to the Company of interest accruing in each half-year, after the expiration of the period during which interest is chargeable to capital, at 4 per cent per annum on one half of the capital raised and expended by the Company for the purposes of the railway crossing the Gundak river by a bridge, from Bagaha to Chhitauni, including interest paid out of capital during construction;
 - (b) in payment to the Government from the aggregate net revenue for the entire year of interest accruing in such year at 5 per cent per annum on all money advanced or expended by the Government for the purposes of the open lines of the undertaking which have not been repaid to the Government;
 - (c) the residue if not in excess of 10 lakhs going to Government and the Company in the proportion of \$\frac{4}{5}\text{lis} to the former and \$\frac{1}{5}\text{th}\$ to the latter; if in excess of 10 lakhs, then as to 10 lakhs in the aforesaid proportion and as to the balance in the proportion of \$\frac{1}{5}\text{th}\$ to the Government and \$\frac{1}{5}\text{th}\$ to the Company.
 - The difference between the net revenue of the Company's railway belonging and payable to the Company and the aggregate advances made to the Company, in any half-year, is to be adjusted as soon as known by payments in India between the Government and the Company as the case may require.
- (v) Rates and fares.—As to the Company's line—to be approved by the Government, who may require the charge for salt, coal and food grains for full-wagen loads carried not less than 100 miles to be reduced to any rate not below the present the presence of

As to the open system—for the carriage of through passengers and goods over the Company's railway, of all through and local passengers and goods over the Tirhoot railway undertaking, and of all passengers and goods from and to the undertaking or any connected railway carried over the Company's railway or any foreign railway connected therewith, the Government have the power to fix and vary the classification for passengers and goods and the maxima and minima fares and rates for the several classes of passengers and goods, respectively. Until otherwise fixed no rate for goods is to be higher than one pie or lower than Yoth pie per maund per mile.

BENGAL AND NORTH-WESTERN RAILWAY SYSTEM-confd.

Rengal and North-Western railway (3' 3%" gauge)-contd.

Main provisions of contracts-coneid.

- (vi) Special obligations as to the conveyance of .-
 - (a) Mails and post office servants on duty.—To be carried free on the Company's railway; and on the Tirhoot railway on the same general conditions and at the same rates as may be in force on the 3' \$\frac{3}{4}" gauge State railways.
 - (6) Troops, police, high Government officials and Government stores.—As to the Company's railway, to be conveyed on the same general conditions as those in force on the 3'.3\frac{2}{3}\) gauge State railways, and at rates to be approved by the Government. As to the Tirhoot railway undertaking, to be conveyed on the same general conditions and at the same rates as may be in force on State railways of the 3'.3\frac{2}{3}\) gauge.
 - (e) Government bullion and coin, and the persons in charge thereof.—To be conveyed at special rates approved from time to time by the Secretary of State.
- (vii) Power of the Government to determine the contracts relating to the Company's railway.—The line and all its appurtenances become the property of Government on the termination of the contracts. If the contracts terminate by the efflux of time the Government is to pay to the Company the value of rolling-stook, movable machinery, stores, etc. The Government may determine the contract after 50 years (i.e., on the 31st December 1932), on one year's previous notice of intention to purchase, paying 25 times the average yearly net earnings, less the share of surplus profits belonging to the Government on the assumption that section 39 (5) of the contract of 1882 had been in actual operation for the five years immediately preceding the purchase. And at any time prior to the 31st December 1912, the Government have the right and option to elect that, upon the determination of the contract of 1882 by notice of purchase on the 31st December 1932, they will in lieu of making the aforesaid payment, pay to the Company a sum of money equal to 25 times the average yearly not earnings, less the share of surplus profits belonging to the Government during the five years immediately preceding the 31st December 1912, on the assumption that section 39 (5) of the contract of 1882 had been in actual operation during the same five years. These terms do not apply to the Doab lines referred to in the contracts of 1896, 1907 and 1910, in respect of which the Government undertake to pay to the Company, in the event of purchase, a sum equal to the capital raised and expended thereon with their sanction. including interest paid out of capital during construction. One-half of the capital raised and expended by the Company for the Manjlii Ghat-Bakulha section, including interest paid out of capital during construction, is to be treated as capital attributable to the Doab lines; the other half, and the whole of the capital for the Bagaha-Chhitauni section, including interest paid out of capital during construction, is to be treated as capital attributable to the Company's main lines. The Government may also determine the contract at any time, at six months' notice, if the Company fail to observe its obligations, on paying the value of rolling-stock, stores, etc., and fair value of the line, less the value of the same treated as a reversionary sum absolutely payable on the 31st December 1981.
- (viii) Power of the Government to determine the contracts relating to the Tirhoot railway undertaking.—

 If the original contract with the Company, dated the 12th December 1882, terminate for any reason prior to the expiry of the term of the contracts relating to the Tirhoot railway undertaking, then the latter also, ipso facto, terminate at the same time. The Government may also terminate the Tirhoot railway contracts at any time, on 6 months' notice, if the Company fail to observe its obligations. The Government may also terminate the Tirhoot railway contracts on the 31st December 1919*, on 6 months' notice: or, at the same date and by the like notice, the

* Since extended to 1922, vise I espatch No. 76-Railway, dated the 3rd July 1914, from the Secretary of State.

Government may modify or after the terms with the approval of the Company as from the 31st December 1919*; but if the Company do not agree to the proposed modifications or alterations

agree to the proposed modifications or alterations then the contracts will terminate on the 31st December 1919*. On the determination of the Tirhoot railway contracts the Government will resume possession of the undertaking, and any capital sums which may have been raised by the Government and expended on the Company's lines, or raised and expended by the Company on the undertaking, are to be considered as debts due from the Company and the Government respectively.

- (ix) Power of the Company to surrender contracts.-Nil.
- (x) Term of contracts relating to the Company's railway.—99 years, i.e., until the 31st December 1981, subject to (vii).
- (xi) Term of contracts relating to the Tirhoot railway undertaking —28 years, i.e., from 1st January 1905 to the 81st December 1982, subject to (viii).

BENGAL AND NORTH-WESTERN RAILWAY SYSTEM -contd.

Bengal and North-Western railway (3' 33" gauge) -concld.

Statistics of working-

	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines opennd (ii) lines partly or wholly under construction.	Gross earnings.	Net carnings.	Interest divided between the Gov- ernment and the company in the ratio of gross earnings.	Payments received for working the Tirhoot railway.	.Totol income.	on total capital outlay given in column (3).	Harnings per mile per week.	Proportion of expenses to earn. ings.
1	2	8	4	5	6	7	8	9	10	11
	Miles.	Rs.	Ba.	Ks.	Rs.	Rs.	Rs.		Ba.	
1884	75.00	1,52,47,428	77,670	-26,321			- 26,221	l	29	133.76
1885	303.00	2,01,86,980	12,05,541	5,89,206			5,89,206	2.92	72	51.18
4504		20240400			l			1		
1886	376.00	2,32,16,102	18,54,074	8,09,189	•••	•••	8,09,189	3.49	106	56.36
1887	376.00	2,56,22,684	19,44,002	8,87,004			8,37,004	3-27	90	56.94
1888	376.00	2,61,51,593	22,09,548	9,88,841		1	9,88,841	3.78	102	55.25
1889	376 00	2,63,41,872	22,11,824	10,53,964		*****		4.00	108	52.35
1890	376.00	2,68,84,918	22,08,788	12,21,020		*24,245	12,45,265	4.63	101	44.72
1891	407.00	2,76,68,842	04 70 000	15,48,590	l	00 104	16,18,074	10-		
	401.00		24,76,909	16,20,567	••	69,484		5.85	111 .	37.48
1892 . 1893 .	414.50	2,83,88,821 2,84,81,234	29,39,077	15,75,686	•••	67,060	16,87,627 16,42,478	5.94	125	44.86
	414 50	2,09,09,209	26,14,516	16,87,899	•••	66,842	17.60.257	5.79	114	39.74
	414 50	2,87,24,887	26,17,242	16,82,766	•••	72,358		6.18	115	85.21
1895	414.50	3,12,95,704	25,71,036			72,909	17,55,675	5.61	112	84.55
1896	478-63	8,43,36,114	26,26,033	16,70,172	l	71,614	17.41.786	5.07	. 113	
1000	485 55	4.10.32.207	27,55,718	17,24,277	•••	74.905	17,99,182	4.38	105	36:40
1896	58 6 :25	4,66,78,822	33,31,890	19,74,920		75.885	20,50,805	4.39		37:43
	743:00	5.16.06.763	43,44,861	26,70,911	•••	61.940	27,32,851	5.30	112	40.73
1990	743:00	5,24,73,019	43,64,006	24,79,433		49.563	25,28,996	4.82	118 109	38 53
1000	790 00	0,2,,,0,0,0	40,04,000		•••	40,000	20,20,000	102	109	43.18
1901	743.00	5,50,91,880	53,66,794	30,97,372	1	76,853	31,74,225	5.76	134	42:29
1902	747.75	5,84,82,525	55.60.238	29,72,183		76,671	30.48.854	5.92	139	46.55
1908	812.96	6,21,09,547	61,98,433	38,53,972		1.04.369	39,58,341	6.37	145	37.82
1904	870.80	6,43,92,183	67,16,933	43,28,496		1,16,834	44,45,330	€.90	147	35.26
1905	901:32	6,77,55,566	61,79,116	34,34,890	+ 37.627	1,69,446	36,41,463	5:37	117	43.81
						1 ' '		1		
1906	932·18	7,13,66,623	77,02,976	40,92,699	9,028	2,01,060	42,81,731	6.00	142	46·99 44·78
1907	1,014.90	7,50,01,758	89,59,804	49,72,741	-25,044	2.04,275	51,51,972	6.87	154	44.78
1908	1,016.79	7,91,13,230	79,80,293	43,74,935	+ 45,015	1,58,939	45,78,889	5.79	162	44.78
1909	1,091 56	8,14,52,801	80,65,658	43,59,479	+ 31,817	58,411	44,49,707	5.27	142	45.95
1910	1,117.14	8,92,16,995	81,58,223	48,85,946	+ 58,810	2,01,276	51,46,032	5.77	146	42.23
1014		0.01.00.000	60.00.000	57.59,988		0.05 100	00 00 10-	0.40		
1911	1,175.84	9,31,80,852	99,29,872		+41,140	2,35,109	60,36,187	6.48	162	42.01
1919	1,177 27	9,68,79,261	1,12,49,175	73,19,499	+38,037	3,09,961	76,67,497	7.91	184	34.93
Int gr.		0.01.00.000	00.10.001	18,67,611		1 07 105	20,26,782	0.00	i	
of 1918 .	1,200.00	9,81,20 363	29,13,381	10,07,611	+ 21,676	1,87,495		2.07	187	35 89
1913-14 .	1,240 12	9,69,54,245	1,06,80,308	63,85,474	+1,19,400	2,96,483	68,01,857	6.87	166	40.51
1014-10	1,288.67	9,91,40,377	1,08,71,200	65,71,263	+ 68,754	2,58,006	68,93,023	6.95	169	89.55
1915-16 .	1,240 92	9.90 50,582	1,02,15,346	60,74,091	+85,587	2,34,486	63,94,164	6.46	158	40.72
1916-17 .	1,241.67	9,88,81,177	1,18,37,675	69,49,567	+ 60,586	2,69,193	72,79,836	7.36	183	41.50
1917-18 .	1,241'65	9,78,24,472	1,21,80,846	67,12,892	+ 40,988	2,19,561	69,72,691	7.13	189	44.89

[•] For the second-half of 1890 only as the line was taken over for working from the 1st July 1890.

Tirhoot railway (3' 3%" gauge)—

Sections of r	ailw	ay.							Date of opening.	Miles.	Total.	Grand total
1				-				_	2	3	4	5
Main line-								1	,		•	
Sonepore to Hajipur									1-8-87	3-23	1	
Hajipur to Bachhwara									1-4-00	44.32	1	
Bachhwara to Barauni Junction									1-5-88	10.05		
Bachhwara to Barauni Junction Barauni Junction to Thana Bihpu Thana Bihpur to Katareah Katareah to Kursela	ır .				·		·		1.3.00	66:17	1	
Thana Bihpur to Katareah .				-					1-2-01	17.84		
Katareah to Kursela								- 1	10-7-02	3.75	1	
Kursela to Katihar Junction .								1	7-3-01	28.75	i	
Branches and Extensions -	•										169-11	
											-1.5	
Hajipur-Musaffarpur branch-											1	
Hajipur to Muzaffarpur			•	٠	•	•	•		26-10-84	82 83	1	
Semaria GhAt extension-											32.85	
Barauni Junction to Semaria Ghi												
Bachhwara-Bagaha branch -		' '	•	•	•	. •	•	•	1-5-83	5.06	i	
Bachhwara to Dalsing Sarai .											5.06	
Dalsing Sarai to Samastipur .	•		•	•	•	٠	•	•	1-5-83	6.10	1	
Samastipur to Muzaffarpur .		•	•	•	•	•	•	•	1-11-75	14.75	1	
Musaffarpur to Motihari	•			•	•	•	•	•	24-2-77	31.21		
Motihari to Bettiah	•	•	•	•	•	•	•	•	1-2-83	50'80	1	
Bettish to Nerkatiaganj	•		•	•	•	•	•	•	20-12-83	27.06	l t	
Narkatiaganj to Bagaha		•	•	٠	•	•	•	•	17-1-06	22.75	1	
Bagaha to Gundak bridge East be	n k '	•	•	•	•	•	•	٠	1.5-07	24.74	;	
Dallaria to Gundar pricise Dase of			•	•	•	•	•	•	9-8-1?	1.11		
											178-32	
			- 0	Carr	ied o	Ver						885-84
							•	•	•••		•••	200.04

BENGAL AND NORTH-WESTERN RAILWAY SYSTEM-contd.

Tirhoot railway (3' 3% gauge) -contd.

Progress in opening-conold.

, Sectio	ns of	railv	vay.						Date of opening.	Miles.	Total.	Grand total
	1								2	8	- 4	- 5
			Brot	oght f	orw	ard						385-8
lajipur estension- Hajipur to Hajipur Ghat								į	26-10-84	1.89		
Razaul branch-	·	·	•	•	Ċ	•	•	•		1 03	1.89	
Sagauli to Razaul	•	•		•	•	•	٠		1-3-99	17-87	17:87	
Samastipur-Darbhanga-Narkat	ia gan;	iloo	p -								1. 0,	
Samastipur to Darbhanga Darbhanga to Sitamarhi	•	٠	•	•	•	•	•	•	1-11-75	23.40		
Sitamarhi to Riga	•	•	•	•	•	•	•	• '	1-7-90	41.79	1	
Riga to Dhang	•	•	•	•	•	•	•	•	1-1-91	5.75		
Dhang to Bairagnia		•	•	•		•	•	•	1-7-91 1-3-92	7.00		
Bairagnia to Narkatiaganj.	•	•	•	•	•	•	•	• ;	20-12-07	5 25 58 75	1	
Bhikna Thoree branch-	•	•	•	•	•	•	•	1	20-18-07	36 13	141 94	
Narkatiaganj to Bhikna Thor	e e ,								12-2-06	92:11		
Darbhanga-Bhaptiahi branch —									- 1		22-11	
Darbhanga to Jhanjharpur	•	•	•	•				.	1-2-88	23.66		
Jhanjharpur to Ghogardiha	•	٠	•	•				• 1	8-4-86	13.68	1	
Ghogardiha to Nirmali	•	•	•	•	•	•	•	• ;	8-4-86	6.24	1	
Nirmali to Bhaptishi .	•	•	•	•	٠	•	•	• }	15-11-87	10.00	1	
Bhaptiahi-Pertabganj (Ih41 bra	nch-								-		\$3.28	
Bhaptiahi to Raghopur		•				•		• '	1-10-88	6.91		
Raghopur to Pertabganj Gha	t	•				٠			1-10-88	4.13	1	
Tonus annua Laure ab									ļ -		11.84	
Jaynagar branch Sakri to Jaynagar				,				. :	14-1-05	30.20	1	
THE ALL D. S. M. C. S. L.								1	-		80.50	
Bhaptiahi Mansi branch-								- 1		i	1	
Bhaptiahi to Makhana Bazar Makhana Bazar to Manai	•	•	•	•	•	•	•		1-8-07	44.83	Ì	
Magnana Bazar to Manai .	•	•	•	•	•	•	•	• !	15-12-07	15.71		
Baijnathpur branch -									-		60 04	
Saharsa to Baijnathpur .									15-3-08	4.55	- 1	
				-		-		- 1	-		4.85	
Monghyr branch-								- 1		1		
Sahebpur Kamal to Monghyr	Ghat	•	٠	•		•	•	• 1	7-3-00	6.04	- 1	
Bhagalpur branch-								1	ļ -		6.04	
Thana Bihpur to Mahadeopur	Ghát							1	16-12-01	11:36	i	
Mahadeopur Ghat to Barari G	hat (S	ltour	net sc	rvice	٠.	•	•	•	10-13-01	11.30	ĺ	
Barari Ghat to Bhagalpur Ka	herv				".	•	•	٠.	15-3-06	8:50	l	
Bhagalpur Kachery to Bhagal	pur st	ation	u, E.	I. Ry.			:		23-12-10	1:44	1	
				•							16:30	
Samastipur-Rusera-Khagaria ex	tensio	-								1		
Samastipur to Rusera Ghat		•						• '	21-12-12	17.72	1	
Rusera Ghat to Hasanpur Ros	vd.		•			٠	٠.	• 1	7-5-15	10 81		
Hasanpur Road to Khagaria	•	٠		•	٠	٠		.	1-11-15	24.27	*****	410.4
			_					- }	-		52.80	418-66
		1	I O TA	L OPE	N M	ILEA	GE		<i>;</i>		•••	804.0
OUBLE LINE-								- 1				-

Details of construction-

Permanent-way.—The line is laid with 50-lb. and 411-lb. flat-footed steel rails on sal, pynkado, and jarrah sleepers and cast iron sleepers of Denham-Olpherts' pattern.

Ballast.-The line, except the Bhikna Thoree branch, is ballasted with kunkur or broken brick.

Fencing.—The line, except new branches, is fenced with stone posts and 4 wires.

Curves. - The sharpest curve, which is on the main line, is of 2,000 feet radius.

Gradients.—The ruling gradient of the line is 1 in 300, except on 3'42 miles between Samastipur and Pertabganj, where the gradient is 1 in 200 and on the Bhikna Thoree branch where it is 1 in 30. Or various river ghât lines the gradients are steeper.

BENGAL AND NORTH-WESTERN RAILWAY SYSTEM-concid.

Ti rhoot railway (3' 3%" gauge) -concld.

Contracts— .

Main provisions of contracts— } As noted under Bengal and North-Western railway.

Statistics of working (Those for the periods prior to 1905 will be found in Appendix 38 to the Railway Administration Report for 1907—

	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.s., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carn- ings.	Net carnings.	Interest divided in the ratio of gross earnings.	Payment made to the Bengal and North-Western Railway Company for working the line.	Total income.	Percentage of total income on total capital outlay given in column (3).	Interest.	Onin or loss to the State pertaining to each year.	Earn- ings per mile per week.	Proportion of expenses to carnings,
1	2 .	3	4	5	6	7	8	9	10	11	12	13
1905 .	Miles. 565:45	Rs. 6,21,36, 9 62	Rs. 61,81,754	Rs. 35,95,050	Rs. —37,627	Rы. 1 ,69,44 6	l≀∺. 3 3,8 7,9 77	5'45	Rs. 23,54,563	Rs. + 10,33,414	Rs. 190	42.45
1906 . 1907 . 1908 . 1909 .	614:30 763:54 774:69 774:69	6,73,40,339 7,19,99,253 7,33,81,590 7,42,61,067	66,80,324 75,39,243 81,68,953 75,53,878	38,97,310 42,21,002 44,81,501 40,09,582	+ 9,028 + 25,044 - 45,015 - 31,817	2,01,060 2,04,275 1,58,939 58,411	37,05,278 40,41,771 42,77,547 39,19,354	5:50 5:61 5:83 5:28	23,17,307 28,80,668 24,68,465 24,73,136	+13,87,971 +16,61,103 +18,09,082 +14,46,218	189 192 204 188	41·52 43·68 45·14 46·92
1910 . 1911 . 1912 .	776·13 769·04 791·51	7,46,12,530 7,56,16,782 7,82,44,847	83,14,066 89,15,376 98,30,665	52,68,260 64,73,031	-58,810 -41,140 -38,037	2,01,276 2,35,109 3,09,961	45,41,734 49,92,011 61,25,036	6:09 6:60 7:83	24,92,047 25,53,319 26,48,419	+ 20,49,687 + 24,38,692 + 34,76,617	206	42°24 40°91 34°15
1st qr. of 191 1913-14 1914-15 1915-16 1916-17	791.51 788.16 788.45 825.62 812.06	7,86,99,931 8,07,86,897 8,17,15,012 8,13,00,448 8,06,18,583 8,01,19,133	26,02,230 1,02,64,997 95,03,765 93,11,906 98,92,860 93,07,091	16,91,800 64,76,789 58,14,830 56,14,514 61,54,482 53,46,681	-21,676 -1,19,400 -68,754 -85,587 -60,586 -40,938		15,82,629 60,60,856 54,98,070 52,94,441 58,24,713 50,86,382	1.95 7.50 6.72 6.91 7.22 6.35	7,16,614 27,70,371 28,43,125 28,30,356 26,66,899 27,89,261	+ 8,16,015 + 32,90,485 + 26,49,945 + 21,64,085 + 31,57,814 + 22,97,121	253 250 232 217 284 293	34-99 36.90 88.82 99.71 37.79

BENGAL DOOARS RAILWAY SYSTEM.

Chairman—Robert Miller, Esq. Secretary—F. J. Horne, Esq.

Offices-Gresham House, Old Broad Street, London, E. C.

Date of registration of the Company .- 30th July 1891.

Lines comprised in the system. The Bengal Dooars railway system is made up of-

								Open line.	or sanctioned for construction.	Total.
(a) Bengal Dooars railway (3' 3t" gauge)								Miles. 36.40	Miles.	Miles. 86'40
(b) Bengal Dooars railway extensions (3'32" gauge)	•	٠	٠	•	٠	•	٠	116.56	5.81	191-87
					To	tal		152.96	5:31	158-27

The lines were constructed for opening or the Western Dooars and for the development of the tea industry.

Bengal Dooars railway(3' 33" gauge)-

Progress in opening-

Sections of railway.	~~~			Date of opening.	Miles.	Total.	Grand total.
			_	2	8		
Main line— East Bank of the Teesta (Barnes Ghât) to Dam Dim Branch—				15-1-98	31.00	31.00	
Lataguri to Ramshai				11-6-93	5:10	1	l
						5:40	l
	Tota	L					36-40

Details of construction-

Permanent-way. - The line is laid with 411-lb. flat-footed steel rails on sal sleepers.

Ballast.-The line is ballasted throughout with stone.

Fencing .- The line is unfenced.

Curves .- The sharpest curve is of 1,432 feet radius.

Gradients,-The ruling gradient is 1 in 150.

Contracts and Agreement-

- Contract, dated the 27th April 1891 (called the principal contract), between the Secretary of State and Mesers. Octavius Steel and Company, Promoters, Bengal Docars Railway Company, as to the construction, maintenance, management and working of the Bengal Docars Railway Company's original line, including the ferries connected therewith.
- Agreement, dated the 27th April 1891, between the District Board of Jalpaiguri and Messrs. Octavius Steel and Company, Promoters, Bengal Dooars Railway Company, as to the payment of a subsidy by the Board to the Company.
- Contract, dated the 2nd March 1898 (supplemental to the contract of 1891), between the Secretary of State and the Bengal Docars Railway Company, as to the construction, management, maintenance and working of certain extensions of the Company's then existing railways.
- Contract, dated the 27th September 1900 (supplemental to that of 1898), between the Secretary of State and the Bengal Docars Railway Company, as to the extension of time for the completion of the line to Hantupara.
- *Contract, dated the 7th November 1901 (supplemental to those of 1898 and 1900), between the Secretary of State and the Bengal Docars Railway Company, as to the extension of time for the completion of the line to Bagrakote.
- Contract, dated the 16th April 1903 (supplemental to the contract of 1898), between the Secretary of State and the Bengal Docars Railway Company, as to the adoption of 1s. 4sl. per rupee as the "prescribed" rate of exchange.
- Contract, dated the 1st May 1914 (supplemental to the contract of 1898), between the Secretary of State and the Bengal Docars Railway Company, as to the adoption of the Government financial year for the preparation of Accounts.
- Contract, dated the 6th July 1916 (supplemental to the contract of 1898), between the Secretary of State and the Bengal Docars Railway Company, as to the construction, management, maintenance and working of the Chalsa-Matelli Extension as a part of the undertaking.

BENGAL DOOARS RAILWAY SYSTEM-contd.

Bengal Dooars railway (3' 33" gauge)-contd.

Main provisions of contracts and agreement -

- (i) Land .- Provided by the Government free of cost to the Company.
- (ii) Governmen/ aid.—Original line: The District Board of Jalpaiguri pay to the Company, out of the District Fund, an annual subsidy of such amount, not exceeding Rs. 4,300, as may be required to make up the net profits in each year to 5 per cent on the capital sum expended.

 Original line and Extensions: Nil. (It is, however, provided that, on the request of the Company, the Government shall take over the original line and extensions, and shall work and maintain them through the agency of the Eastern Bengal railway, at 40 per cent of the gross receipts in each half-year, paying the remaining 60 per cent over to the Company.)
- (ii) Terms of working.— } The whole of the profits go to the Company. (If, on a request (iv) Distribution of profits.—} made by the Company, the lines be worked by the Eastern Bengal railway the Government retain in each half-year 40 per cent of the gross earnings, the remaining 60 per cent being paid to the Company after deduction of the income-tax payable to Government.)
- (v) Rates and faces.—Original line, i.e., the Main Line from Barnes Ghât to Mal Junction; the Eastern branch of the Main Line from Lataguer Junction to Ramshai; and the Western branch of the Main Line from Mal Junction to Dam Dim; also the Eastern Extension from Mal Junction to Madarihae; and the Western Extension from Dam Dim to Bagrakote:—Certain maxima rates and fares for goods (other than food grains, salt, coal for construction, working and maintenance, and construction and revenue stores excluding coal), passengers, luggage, carriages, horses and parcels have been fixed. For food grains, salt, coal for construction, working and maintenance, and for construction and revenue stores, certain maxima and minima have been fixed. If the gross receipts of the original railway and of the two (Eastern and Western) Extensions shall in any one year have reached 12 per cent on the combined capital outlay of those lines, Government may reduce the maxima rates and fares by a figure up to 25 per cent, except in the case of the special rates for food grains, salt, coal for construction, working and maintenance, and construction and revenue stores excluding coal, and for third class passengers. Southern Extension, i.e., from Barnes Junction to Lalmanirhat:—Certain maxima and minima rates and fares have been fixed for goods, passengers, carriages, horses and dogs. Luggage, parcels and bullion are carried at the rates passed by the Railway Conference.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—Mails to be carried under the same terms and conditions as mails were at the date of contract of 1891 being carried on the Eastern Bengal railway, the Government having power to fix the timing of one train each way daily for the carriage of mails. Postal officials travelling on duty to be given free passes.
 - (b) Government bullion and coin, and the persons in charge thereof. Not specified.
- (vii) Power of the Government to determine contract.—If the Company fail to work the Original line and the Extensions for six consecutive months, the Government may determine the contract by paying to the Company a sum equal to their actual expenditure up to the date of notice. In the event of the Company failing in any of its obligations for constructing and opening the Chalsa-Matelli Extension, Government have power to take over this Extension also on certain terms.

 The Sceretary of State has the right to purchase the Original line and the Extensions on the 31st December 1919, and at the end of any succeeding seventh year, by giving 12 months' previous notice. In the event of such purchase the price to be paid for the Original line is to be a cash payment of one and two-fifths of the amount of the invested capital liabilities of the Company; while the price for the Eastern, Southern and Western Extensions is to be a cash payment in England in sterling of a sum equal to 25 years' purchase of the average of the net carnings of the Extensions during the last preceding 5 years, and that for the Chalsa-Matelli Extension a sum equal to 25 years' purchase of the average yearly net carnings during the period which shall have clapsed since opening, provided that such sums shall not exceed by more than 20 per cent, nor be less than, the total capital expenditures and capital liabilities of the Company in sterling as expended on the Extensions or incurred with the sanction of the Government.
- (viii) Power of the Company to surrender contract .- Nil.
 - (ix) Term of contract .- None specified.

BENGAL DOOARS RAILWAY SYSTEM-contd.

Bengal Dooars railway (3' 3" gauge) -concld.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital ontlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings	Net earnings.	Percentage of net carnings on total capital outlay given in column (3)	Subsidy from Disrict Board.	Total income.	of total income on total capi-		Proportion of expenses to earnings.
1	2	- 8	1	7 5	6	7		9	10	11
	Miles.	Rs.	Rs.	R.		Rs.	Rs	; • • • • • • • • • • • • • • • • • • •	Ra	
1893 .		18,49,091	1,14,812	57,639	3:12		57,639	3.12	69	49.80
1894 .	36.40	22,84,223	2,05,286	1,04,291	4.57	4.000	1,08,291	1.74	109	49-20
1895	36.40	23,26,176	2,53,537	1,27,459	5:48	1,000	1,31,459	5.63	125	19.78
1896	00 40	24,33,213	2,70,451	1,31,814	5-42		1,31,814	5.42	136	51.26
1897 .	36.10	25,78,562	2,86,407	1,45,259	5.63		1,45,289	5.63	145	49.27
1898 .	36.40	26,68,050	2,69,080	1.14.620	4:30	4,000	1.18.620	4 15	135	57:40
1899 .	36.40	26,26,748	2,73,038	1,18,417	4:51		1,29,117	4.66	137	56.63
1900 .	36.40	26,42,695	2,32,734	1,89,460	7:17		1,89,160		168	43.06
1901 .	36:40	26,44,873	3,10,920	1,76,390	6.67	·	1.76,399	6:67	156	43:27
902 .	::6:40	26,50,627	2,73,340	1,71,155	6:47		1,71,455	6 17	144	37.27
1903	:16:40	26.95.547	8,11,131	2.24,952	8:35		2,21,952	8:35	156	27.70
1904	36:40	26,64,612	3,46,277	2,56,651	9:63		2,56,651	9:63	175	25.88
1905 .	36:49	27,26,891	3,70,343	2,49,598	9:15		2,49,598	9-15	196	82.60
1906 .	36.10	27,38,008	4,08,623	2,96,503	10:86		2,96,703	10.86	216	27:50
1907 .	36.40	27,56,535	4,20,705	2.84,722	10:33	••	2.84.722	10:33	222	32 63
1908 .	36.40	27,79,347	1,37 252	3.34,162	12:02		3,34,102	12 02	231	23.59
1909 .	36.40	28,40,534	1,46,811	3.54,527	12:48		3,54,527	12.44	2:36	20.65
1910 .	36.40	29,73,769	4,86,075	0.78 348	12.55		3,73,343	12 65	257	23.24
911 .	36.40	31,18,391	4,94,956	3.86,765	12:40		3.86.765	12:40	261	21.76
912 .		31,71,542	5.41,376	4,16,170	18/10		4,16,170	13:12	286	23.13
st qr. of 1913	36.40	31.76.034	1,13,010	77,510	2'44		77.510	2.44	239	31:41
913-14	36:40	32.04.393	5,91,202	4.36.529	13.62		4,86,529	13.62	812	26.16
914-15	26:40	:3,37,555	5,70,739	4,21,605	12.63		4 21,605	12 63	305	26.30
915-16	36 40	38,16,175	6,06,364	4.17.987	13:48		4,47,687	13'48	320	26:27
916-17	36:40	33,16,000	6,00,348	4.87,185	14.70	,	4.87.185	14 70	349	26.18
917-18	36.40	53 14,042	6,36,781	1,74,792	14:32		1,74,792		336	25.41
•		,,	0,00,101	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11.02		1,79,792	19.32 [330	25.41

Bengal Dooars railway extensions (3' 3\squage)-

Progress in opening -

Sections of railway.	Data of opening.	Miles.	Total.	Grand total
1	2	3	4	5
Eastern extension— Mal to Chalsa Chalsa to Chengmari Chengmari to Dalgnon Dalgaon to Madarihat	. 1-4-01 . 1-1-03 . 23-3-03 . 14-6-03	5:40 13:45 15:84 9:31	44.00	
Barnes Junction to Baura Baura to Bhotemari Bhotemari to Lalmanirhat	20-4-00 21-10-00 20-11-00	29:30 16:70 20:80	at a	
Western extension— Dam Dim to Codlabari Codlabari to Bagrakot	1.5.01 1-1-02	3:30 3:46	65-80 6 -76	
FOTAL OPEN MILEAGE UNDER CONSTRUCTION OF SANCTIONED FOR CO	-ис-			116-56
Chalsa to Matelli (sanctioned on 26th Septem	iber	5:81	5.81	5 -31
GRAND TOTAL		l		121.87

Details of construction-

Permanent-way .- The line has been laid with 411-lb. flat-footed steel rails on sal sleepers.

Ballast .- The line is ballasted throughout with stone.

Fencing .- The line is unfenced.

Curves .- The sharpest curve is of 955 feet radius.

Gradients. — The ruling gradient of the Southern extension is 1 in 200 and of the Eastern and Western extensions, 1 in 100.

Contracts and Agreement-

As noted under Bengal Dooars railway (8' 31 gauge). Main provisions of contracts and agreement

BENGAL DOOARS RAILWAY SYSTEM-ooneld.

Bengal Dooars railway extensions (3' 3%" gauge) -- concld.

Statistics of working-

Уеаг.	1	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Karnings per mile per week	Proportion of expenses to earnings.	Bemarks,
1	1	2	3	4	5	6	7	8	,
1900 .	1	Miles. 66.00	Bs. 47,11,632	Ra. 16,191	Rs.		Bs. 14	72-82	The net earning for 1900, 1901.
1901 . 1902 .	:	74:30 77:76	62,26,954 72,66,165	1,76,389 2,53,634		1 :::	47 63	60-92 65-99	1902 and let
1908 1904	:	116·56 116·56	80,10,365 84,97,572	3,46,668 4,15,179	79,199 1,08,680	0·99 1·28	61 68	69·78 78·85	were credited to interest on
1905		116·56	87,92,080 89,99,516	5,12,343 5,83,852	1,97,824 2,91,256	2.25	85 96	61·39 50·10	capital during construction.
1906 . 1907 .	•	116.20	90,70,826	6.04.183	1,43,585	1.28	99	76.53	
1908	: 1	116.26	90.88.887	6,19,972	3,14,228	3.45	102	49.31	1
1909 .	- : 1	116.56	91,36,146	6,08,419	3,14,641	3.44	100	48.28	Ì
1910 .		116.26	92,06,724	6,58,433	3,45,725	3.75	109	47:40	į.
19 11 .		116.26	93,48,461	7,07,730	3,60,021	3.85	117	49.13	ŀ
1912 .		116.28	94,48,641	8,92,405	5,01,116	5.81	147	43.85	l .
	of	116.26	94,82,828	2.09,414	1,06,083	1.12	138	49.84	i
1918 1918-14		116.26	95,55,890	10.49.680	5.55.144	5.92	178	46.07	J
1914-15	.	116.26	99,98,430	10,21,995	5.09.685	5.10	169	50:18	I
1915-16	: 1	116.26	1,05,48,389	10,35,813	5.08.966	4:83	171	50.86	
1916-17	:1	116.56	1 1,07,40,183	11,09,183	5,16,134	4 81	183	53.47	
1917-18	. 1	116 56	1,08,54,886	10,72,858	5,01,811	4 62	177	53.27	1

BHAVNAGAR STATE RAILWAY SYSTEM.

Lines comprised in the system.—The Bhavnagar State railway system is made up of-

mprings in the system.—The 2000.	 . 20	***	• • • • • • • • • • • • • • • • • • • •	٠٠,	oj	· · ·	10 111		•	Under construc- tion or sanctioned for construction.	TOTAL.
(a) Bhavnagar State railway (3' 31" gauge) (b) Dhrangadra railway (3' 31" gauge)	:	:	:	:	:	:	:	:	Miles. 306:31 42:71	Miles. 54:30	Miles. 260:61 42:71
			Total						249-02	54:30	508 89

Bhavnagar State railway (3' 31" gauge) -

This line was constructed by Government Agency for the Native State of Bhavnagar (after which it is named). It was worked up to the Slst March 1911 by an Administrative Coslition of the States of Bhavnagar, Gondal, Junagad and Porbandar, which was formed for the purpose of working as one undertaking the railways which, prior to that date, were comprised in the Bhavnagar-Gondal-Junagad Porbandar railway. The Coalition ceased to exist on the 1st April 1911, on sad from which date the line is being worked independently as a separate and distinct railway.

Progress in opening-

Sectio	ns of	railv	vay.					Date of opening.	Miles.	Total.	Grand total.	Remarks.
		1						2	8	4	8	8
Main line- Bhavnagar Docks to	Wad	hwan	Jun	etion				20-12-80	*104.79	104.79		•Includes 1'2
Branches -								1		104 /9	-	miles of Dool
Dhasa branch— Dhola to Dhasa .								19-1-81	15.33	15-33		estate line which in worked for goods traffic
Kundla extension— Dhasa to Liliamota Liliamota to Savar	. v:	ndla						1-10-11 17-8-12	20·80 15·00			only.
	. u	nana	•	•	•		•	11-0-12	13 00	35-80		1
Palitana branch - Sihor to Palitana								16-11-10	16.92	16.92		
Jasdan extension— Botad to Vinchhia								15-5-13	J8·41	10 02		
Vinchhia to Jasdan	•	٠	٠	٠		٠	•	15-9-13	15:06	38:47	•	
Under constructi				EN M							206:31	
	UCTI	on.					٠,	.1				ļ
Dongar to Port Albert				ine l		16th	Š		•••	54.30	. 51.30	
			G	RAND	ro	rat.				1	260:61	1

Details of construction-

Permanent-way.—The permanent-way consists of 412-lb. flat-footed steel rails on creosoted pine, deodar and jodks teak sleepers. The line between Bhavnagar City and mile 73/19 on the main line has been renewed with 50-lb. flat-footed rails, except in station yards. The Jasdan extension is laid

with 40-lb flat-footed rails and the Palitana and Kundla extensions, with second-hand 414-lb. flat-footed rails, except 1.85 miles near Liliamota, which are laid with new 40-lb flat-footed rails.

Bellast.—The line is ballasted with broken stone, with the exception of the length between Chuda and Wadhwan, which is ballasted with kunkur. Newly opened lines are ballasted with stone in cuttings and moorum in banks.

Fencing.—The line is practically unfenced.

Curves.—The sharpest curve is of 1,000 feet radius.

Gradients.—On the main line the ruling gradient is 1 in 200, except for about 10 chains near the Ranpur Bhogawa bridge where it is 1 in 100. Between Sihor and Palitana it is 1 in 100; between Dhasa and Savar Kundla, 1 in 125 and between Botad and Jasdan, 1 in 150.

Agreement_

Nil .- The line is owned and worked by the Bhavnagar State.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net carnings.	Percentage of net earnings on total capital outlay given in column (8).	Earnings per mile per week.	Proportion of expenses to earnings.
i	2	3	4	5	1 6	7	8
1911 1912 1st qr. of 1913 1913-14 1914-15 1915-16 1916-17 1917-18	Miles. 157:95 173:17 172:66 206:31 206:31 206:31 206:31	Rs. 89.52,431 1,09.63,312 1,09.63,312 1,09.2709 1,12.27,183 1,20.68,075 1,21.6,506 1,22.06,552 1,33.63,479	Rs. 14,58,671 14,65,675 3,67,171 14,43,984 15,48,860 14,93,420 16,39,442 17,65,940	Rs. 9,07,436 7,71,271 1,93,685 7,38,766 8,28,088 7,91,522 8,46,223 10,52,256	10°14 7°08 1°76 6°58 6°85 6°45 6°45 8°51	Be. 178 163 164 185 144 139 153	87.79 47.89 47.85 48.90 40.82 47.67 48.36 40.41

BHAVNAGAR STATE RAILWAY SYSTEM-concld.

Dhrangadra railway (3' 3%" gauge)-

This line was constructed for the Native State of Dhrangadra (after which it is named). It was worked up to the 81st March 1911 by an Administrative Coalition of the States of Bhavnagar, Gondal. Junagad and Porbandar, which was formed for the purpose of working as one undertaking the railways which, prior to that date, were comprised in the Bhavnagar-Gondal-Junagad-Porbandar railway. The Coalition ceased to exist on the 1st April 1911, on and from which date the line is being worked by the Bhavnagar State railway.

Progress in opening-

	Document a series.												Date of open- ing.	Miles,	Total.	
				1										2	3	4
Wadhwan Junction to Dhra Dhrangadra to Halvad . Dhrangadra Quarry branch	ngadr	a	:			٠	:						:	1-6-98 1-1-15	20·43 19·72	
Dhrangadra Quarry branch	•	·	•	٠	٠	٠	٠	٠	٠	٠	÷	·	•	1-9-15	2.56	
										То	TAL	٠	•		•••	42.71

Details of construction-

Permanent-way. - The permanent-way consists of 411-lb. flat-footed steel rails laid on deodar and jodks

Ballast.—The ballast used is of broken sandstone.

Fencing .- The line is unfenced.

Curves .- The sharpest curve is of 700 feet radius.

Gradients.-The ruling gradient is 1 in 100,

Agreement-

Provisional agreement, dated the 22nd February 1911, between the Bhavnagar and Dhrangadra States, as to the maintenance, management and working of the Dhrangadra railway.

Main provisions of agreement-

- (i) Land .- Provided by the Dhrangadra Durbar free of cost.
- (ii) Government aid .- Nil.
- (iii) Terms of working .-Forty per cent of gross earnings (subject to a biennial revision), plus 5 per cent for hire of rolling-stock and, in addition, actual expenditure on the maintenance of way, works and stations. The forty per cent is subject (iv) Distribution of profits.—) the maintenance of way, works and stations. The forty per cent is subject to reduction to 35 per cent when the earnings per mile per week exceed
- (v) Rates and fares .-
- tales and fares.—

 [a] pecial obligations as to the conveyance of—

 [a] Mails, troops, police, officials and Government stores.—

 [b] Bullion and coin.—

 The same as are, for the time being, in force on the Bhavnagar State railway. (vi) Special obligations as to the conveyance of-
- (vii) Power of Government to determine agreement .- Not specified.
- (viii) Power of Durbar to determine agreement .-(ix) Power of Bhavnagar state railway to determine agreement.— } Not specified pending new agreement.
 - (x) Term of agreement .- To be fixed hereafter.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

	Year	Year. Mileage open at ond of each year.		at end of cach	Total capital cutlay, including suspenso, to end of oach yoar, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net carnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week,	Proportion of expenses to earnings,
	1		_i		8	4	5	6	7	8
			1	Miles.	Ra,	Rs.	Rs.		Rs.	
1908 1909 1910	:		:	20°83 20°83 20°83	5,85,164 5,85,705 5,86,796	53,131 60,202 83,692	17,756 18,564 34,208	3·03 3·17 5·83	. 49 56 77	66:58 69:16 59:18
1911 1912 1st qr. c 1913-14 1914-15 1915-16 1916-17 1917-18		3	• • • • • • • • • • • • • • • • • • • •	20:83 20:63 20:63 20:63 40:13 42:71 42:71	5,85,334 5,85,836 5,81,336 11,37,252 14,07,179 13,93,837 14,12,125	93,689 73,811 20,408 87,181 1,15,044 1,51,106 1,19,768 1,48,098	43,546 32,286 6,889 42,643 59,790 72,155 41,623 57,761	7:44 5:52 1:09 7:84 5:13 2:99	86 69 76 81 55 68 54 67	53°51 56°36 68°68 51°06 48°04 52°25 65°25 60°28

171 BURMA RAILWAYS SYSTEM.

Chairman.—Lieut.-Colonel Alfred Glynn Begbie.

Managing Director.—Walter Home, Esq., C.I.E.

Offices.—199, Gresham House, Old Broad Street, London, E.C.

Date of registration of the Company.—21st July 1896.

Lines comprised in the system.—The Burma railways system is made up of-

				Open line.	Under construction or sanctioned for construction.	Total.
				Miles.	Miles.	Miles.
(a) Burma railways (3' 3%" gauge)				1,341.85	***	1,341 85
(b) Burma railways extensions (3' 34" gauge) .	•	٠	•	186.33		186:93
(c) Southern Shan States railway (3' 3' gauge)	•	٠		69:68	31.25	108.98
	Total			1,598:46	34-25	1,632.71

Burma railways (3' 3% gauge)-

The Burma Railways Company was formed in 1896 for the purpose of taking over the working of the then existing system of State railways (3' 3\frac{1}{2}" gauge) in Burma and extending it by the construction of other lines, particularly one from Mandalay to Kunlong. The railways taken over by the Company from Government on the 1st September 1896 comprised the following lines:—Rangoon to Prome on the Irrawaddy river; Rangoon to Mandalay, and thence to the bank of the Irrawaddy, opposite Sagaing and Sagaing to Myitkyina and a branch to Katha, whence there is communication by river with Bhamo.

Secti	іоня с	f rai	lway	•					Date of opening.	Miles.	Total.	Grand total.	REMARKS
	1								2	3	4	5	6
BRAWADDY SECTION— Rangoon to Prome									1-5-77	161.00	161.00		
SITTANG SECTION-											10100		
Main Line— Rangoon to Nyaunglebin Nyaunglebin to Toungoo	:	:		:	:	:	:	:	4-2-84 1-7-85	93 00 73 00	166.00		
Branches .									1		10000		1
Suburban lines*									1-3-80 15-7-90	6.00			
Malagon to Banktawt .								•	25-8-11	1.70	10.70		Worke for good
MANDALAY SECTION-											10 / 0		only.
Main Line- Toungeo to Pyinmana Pyinmana to Yamethin . Yamethin to Mandalay .	:	:	:	:	:	:	:	:	1-5-89 15-11-88 1-8-89	59°00 49°00 112°00			tworks for partenger traffic only.
Branches-									l i		220.00		omy.
Myingyan branch — Thazi to Meiktila Meiktila to Myingyan	:	:	:	:	:	:	:	:	10-5-98 15-11-99	12.89 57.21	!		
Mandalay Shore branch -]		70 10		1
Mandalay to Mandalay s	hore	٠.	•	•	٠	•	٠	•	13-4-89	2.20	2.20		
MU VALLEY SECTION-									1	1			1
Main line-									22-11-91	6:00			i i
Mychaung to Amarapura al Sagaing to Shwebo	nore	•	•	•	:	:	•	:	1-7-91	58.05			i
Shwebo to Wuntho .	:	:	÷	:	:	:		:	4-4-98	39.46	- 1		3
Wuntho to Nankan .									1-11-94	15:46	1		1
Nankan to Mohnyin .									21-10-95	74.85	1		1
Mohnyin to Mogaung .				•	•	•	•	•	1-8-96	52:34			1
Mogaung to Myithyina .	•	•	•	•	•	•	•	•	1-1-98	36.63	337-29		l
Branches Sagaing-Alon branch									1		1		1
Ywataung to Alon .		٠	•	•	٠	•	٠	٠	15-4-00	70.46	70:46		1
Katha branch-									2-10-95	15:00			ł
Naba to Katha	٠	•	•	•	•	•	•	•	2-10-95	15.00	15.00		1
Mandalay-Kunlong section	-												1
Mychanng to Sedaw . Sedaw to Maymyo .				•	•		•	•	1-1-98	13.45			1
Sodaw to Maymyo	•	•	•	•	•	•	٠	٠	1-4-00 20-5-00	26·10 34·10			1
Maymyo to Nawnghkio.			•	•	•	•	•	٠					1
Nawnghkio to Haipaw .	•	•	•	٠	•	•	•	•	1-6-04 1-8-03	58·25 50·94			1
Heipaw to Lashio	•	•	•	•	•	•	•	•	1-3-03	30'85	177'84		1
•					Carr	ied o	ver					1,230-89)

BURMA RAILWAYS SYSTEM-contd.

Burma railways (3' 3%" gauge)-contd.

Progress in opening-concld.

Sections of	rail	way.				•		Date of opening.	Miles.	Total.	Grand total.	Remark
						-		2	3	4	5	6
AGNEIN-HENZADA-LETPADAN SI			Brou	ght.f	orwa.	rd	Τ.				1,230.89	
ABSEIN-HENZADA-DEIFADAS 6		- 40							1		1	
Suburban line at Bassein* Bassein to Henzada Henzada to Henzada shore	:	:	:	:	:	:	:	15-1-04 15-12-02 20-3-03	3·13 82·25 2·46			Work for goo
Tharawaw on the east bank	υf	the	Irra	wadd	y ri	ver	to					traffic
Letpadau	•	•	•	•	٠	•	•	20-3-03	23.07	110.96	110-96	
					Гота	,					1,841.85	
OUBLE LINE-						b	•					
Irraweddy section -												
Rangoon to Kemmendine								30-10-89	3:50		1	
Kemmendine to Insein					:	•	•	10-1-90	5:50		1	
Insein to Hlawga						•	:	25-8-05	7.92		1	l
Hlawga to Mogyobyit			·	·	•	•	•	1-10-07	3.25		1	ł
Morrobyit to Hmawbi					•	•	•	23-11-07	4.13		1	1
Hmawbi to Wanetchaung	٠			•		:	:	14-2-08	5:00			Ì
Sittang section-										29:30		}
Rangoon to Pazundaung								1-6-01	0.70		1	l
Pazandaung to Thingangyun					:	•	•	19-4-05	3:40		1	ì
Thingangvun to Togyannggal	٠.				Ť	•	•	2-1-10	2.71			
Togyaunggale to Tewainggyi					:		÷	30-11-07	4.08			
Tewainggyi to Ledaunggan					•	•	:	23-11-07	4.71		1	
Tewainggyi to Ledaunggan Ledaunggan to Dabein				- :	•	•	:	10-1-08	6:69		1	1
Dabein to Tongyi					•	:	:	3-1-10	7.75		1	1
Tongvi to Kvanktan					:	•	•	4-1-09	4:06		1	
Kvanktan to Pavathonzu .						•		18000	8.26			
Payathonzu to Pegu						•		4-1-09	3.21	1	1	1
			-		•	•	•			45.87		ļ
Pegu-Pyuntara section—												1
Pegu to Shwelle	•	•						10-8-11	5:57		į.	ļ.
Shwehle to Payagyi	٠	•						26-5-11	4.91		1	į.
Payagyi to Pyinbongyi	•							22-5-11	7.83		1	ł
Pyinbongyi to Kadok	•			:				1-8-11	6.25		1	1
Kadok to Panngdawthi		•						2-10-11	4.73		1	1
Pannydawthi to Dorku .	٠	•		:				26-5-11	5.30		1	
Deiku to Pynutaza	•	٠	•					3- 8-11	6.73		1	
Mandalay section -										41.82	1	1
Myohaung to Mandalay .	•	•	•	•				3-10 -99	2.45		1	i
										2.45	į.	1
	T	OTAT	, Do	JELE	LINI	e e					118.94	1

Details of construction-

Permanent-way.—The rails in use on the system are 60-lb., 50-lb. and 41\frac{1}{2}-lb. flat-footed steel. The sleepers throughout are of Burma teak, pynkado, Thitya, Engyin and Australian hard woods, pynkado largely predominating.

Ballast, -The ballast used is either shingle or broken stone.

Fencing.—The main line, from Prome to Rangoon and Rangoon to Mandalay, and the Bassein-Henzada line are fenced. The Mu Valley line is generally unfenced, except at stations. The Lashio, Myingyan and the Sagaing-Alon branches are unfenced, except at certain stations.

Curves.—On the main line (Rangoon to Mandalay), the sharpest curve has a radius of 573 feet, on the Rangoon-Prome section, of 1,146 feet. The sharpest curves on the Bassein-Henzada, Letpadan-Tharawaw, Thazi-Myingyan and Sagaing-Alon branches have radii of 955, 1,482, 1,273 and 2,865 feet, respectively; on the Lashio branch, of 337 feet; on the Mu Valley line, from Sagaing to Myitkyina, including the Katha branch, of 573 feet.

Gradients.—The ruling gradient on the main line from Prome to Rangoon and Rangoon to Mandalay and Myohaung to Amarapura shore is 1 in 200, except for a short length at mile 124 on the Prome branch, where it is 1 in 150; on the Mu Valley section, from Sagaing to Kanbalu, 1 in 200 uncompensated, from Kanbalu to Naba 1 in 100, and Naba to Myitkyina, 1 in 100 uncompensated, with a banking section, from Mawhan to Mohnyin, of 1 in 60 uncompensated. On the Lashio branch it is 1 in 25 compensated between Sedaw and Thondaung, and 1 in 40 compensated, between Thondaung and Lashio; on the Myingyan branch, 1 in 100 uncompensated; on the Sagaing-Alon branch 1 in 150 uncompensated; and on the Katha branch 1 in 50 uncompensated. Between Letpadan and Tharawaw and Henzada and Bassein, it is 1 in 200.

Contracts-

Contract, dated the 9th March 1897 (called the principal contract), between the Secretary of State and the Burma Railways Company, as to taking over the Burma railways, the construction of other railways and their maintenance, management and working.

BURMA RAILWAYS SYSTEM-contd.

Rurma railways (3' Si" gauge) -contd.

Contracts-concid.

- Contract, dated the 6th February 1902 (supplemental to the contract of 1897), between the Secretary of State and the Burma Railways Company, as to the issue of debenture stock of £1,250,000.
- Contract, dated the 5th May 1903 (supplemental to the contract of 1897), between the Secretary of State
 and the Burma Railways Company, as to the adoption of 1s. 4d. as the "prescribed" rate of exchange.
 Contract, dated the 22nd February 1907 (supplemental to the contracts of 1897 and 1903), between the
- Secretary of State and the Burma Railways Company, as to the construction, maintenance, management and working of the Pegu-Moulmein and Henzada-Kyangin extensions and the Daga loop line
- Contract, dated the 23rd February 1907 (supplemental to the contracts of 1897, 1902 and 1903), between the Secretary of State and the Burms Railways Company, regarding advances of capital amounting to Rs. 85 lakhs in 1903 to 1906.
- Contract, dated the 9th June 1909 (supplemental to the contracts of 1897, 1902, 1903 and the 22nd and 28rd February 1907), between the Secretary of State and the Burna Railways Company, as to the conditions on which the Company was authorised to increase its share capital by 21,000,000 and other matters.
- Letter from the Burma Railways Company No. 528 (General), dated as to the provision of funds the 28th March 1911, to the Under Scoretary of State for India; Letter from the India Office No. P. W. 596, dated the 18th April to meet further capital expenditure on the Burma
- 1911, to the Burma Railways Company; railways.

 Letter from the Burma Railways Company No. 591 (General), dated the 13th March 1918, to the
- Letter from the Burma Railways Company No. 591 (General), dated the 13th March 1913, to the Under Secretary of State for India, accepting the proposal that advances made by the Secretary of State on and subsequent to 1st April 1913 should bear interest at 4 per cent per annum. Contract, dated the 7th April 1913, (read as part of the supplementary contract of 22nd February 1907), between the Secretary of State and the Burma Railways Company, defining the manner in which the earnings of the Burma Railways Extensions shall be ascertained and in particular the proper apportionment of receipts and expenditure in connection with through traffic and of expenses of stations common to the Burma Railways and the Burma Railways Extensions.

 Contract, dated the 24th March 1914 (supplemental to the contracts of 1897, 1902, 1903, the 22nd and 23rd February 1907 and the 9th June 1909) between the Secretary of State and the Burma Railways Company, as to the adoption of the Government financial year for the preparation of accounts.
- preparation of accounts.

 Letter from the India Office No. P.W. 216, dated the 18th February 1915, to the Burma Railwaya Company, stating that advances or overdrafts will not be granted after 31st March 1915 at a
- rate of interest lower than 41 per cent.

 Contract, dated the 3rd October 1916 (Supplemental to, and modifying, the contract of 22nd February 1907) between the Secretary of State and the Burma Railways Company, as to the exclusion of the Daga loop line from the list of State railways mentioned in the contract of 22nd February 1907.
- Telegram from the Secretary of State, dated the 14th February 1918, stating that advances or over drafts will not be granted after 31st March 1918 at a rate of interest lower than 51 per cent.

Main provisions of contracts-

- (i) Land .- To be provided by Government at the cost of capital, subject, as regards land outside British
- (ii) Government aid.—The Government undertake to pay interest—

 (iii) Government aid.—The Government undertake to pay interest—

 (a) at 2½ per cent per annum on the Company's share capital of £2,000,000 raised under the contract of the 9th March 1897 (with an additional ‡ per cent per annum up to and inclusive of the 1st July 1901);
 - (b) at 3 per cent per annum on £1,250,000 raised by the Company by the issue of debenture stock under the contract of the 6th February 1902; and
 - (c) at 21 per cent. per annum on the Company's additional share capital of £1,000,000 (excluding the premium thereon which realized £20,000) raised under the contract of the 9th June 1909.
- (iii) Distribution of profits. The net receipts of each year are applied in payment to Government of-
 - (a) interest at 3 per cent per annum on the Company's debenture stock of paid balf-yearly to the Company £1,250,000;
 - £1,250,000;
 (b) interest at 21 per cent per annum on the Company's share capital of hy Govern-£3,000,000 ;
 - (c) interest at 24 per cent per annum on the Government assumed capital; and (d) interest on capital overdrawn by Company at 32 per cent per annum up to the 31st March 1918, at 4 per cent per annum from 1st April 1918 to 31st March 1915, at 44 per cent per annum from 1st April 1916 to 31st March 1918 and at 54 per cent per annum.
 - thereafter. The surplus profits, after allowing for interest in any year ending on a 31st March, are to be divided in the ratio of the Government and Company's capital, which, for the purpose of this division, has been stated at £5,750,000 and £3,000,000, respectively, and works out to \$\$\frac{2}{3}\$\$ the to the
- former and 12 this to the latter.

 (iv) Rates and feres.—Maxima and minima for the different classes and descriptions of services and terminals to be approved by the Government.

RURMA RAILWAYS SYSTEM-contd.

Burma railways (3' 33" gauge) -concld.

Main provisions of contracts-concld.

(v) Special obligations as to the conveyance of .-

- (a) Mails, troops, police, high Government officials and Government stores.—To be conveyed on the same general conditions as on other 3' 3\{\}" gauge State railways, and at rates to be approved by the Government.
- (b) Government bullion and coin, and the persons in charge thereof.—To be conveyed at special rates approved by the Government.
- (vi) Power of the Government to determine contract.—The Government may, by giving 12 months' previous notice, determine the contract as to the Company's undertaking on the 31st December 1928, or on the 31st December 1935, or on the 31st December 1941, or on the 31st December 1925, or on the 31st December 1935, or on the 31st December 1931, or on the 31st December of any succeeding tenth year. On the determination of the contract from any cause, the Government is to repay to the Company in sterling at par the capital raised by the latter, and also to take over the liability of the Company in respect of the debenture stock.

 As to the determination of the contract of the 22nd February 1907, as to the construction and

working of new branches, see Burma Railways Extensions (8' 34" gauge).

(vii) Power of the Company to surrender contract .- Nil.

(viii) Term of contract [if not determined under (vi) or (vii)].—None specified.

Statistics of working (Those for the periods prior to 1897 will be found in Appendix 38 to the Railway Administration Report for 1907).—

Year,	Mileage open at end of oach year.	Total capital outlay, includ- ing suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construc- tion.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (8).	į	Company's share of surplus profits (based on terms of contract) attributable to each year.	Gain or loss to the State	Earn- ings per mile per week.	Propor, tion of expen- ses to easy- ings.
1	2	3	4	5	6	7	8	9	10	11
3897 . 1898 . 1899 . 1900 .	Miles. 886:50 936:13 993:34 1,124:00	Rs. 8,73,81,890 9,24,93,509 10,11,17,647 11,03,96,635	Rs. 86,76,403 89,91,451 88,25,724 1,10,29,947	Rs. 38,82,673 37,88,523 85,78,407 48,94,824	4·45 4·10 3·54 4·43	Rs. 38,31,674 39,49,899 88,35,209 88,49,026	Rs. *1,18,696 1,94,988 1,67,935 4,22,384	Rs. -62,697 -3,56,364 -4,24,737 +6,28,414	Rs. 188 185 179 196	55.25 57.87 59.45 55.62
1901 · 1902 · 1908 · 1904 · 1905 ·	1,177.70	11,99,22,408	1,18,85,329	49,89,656	4·16	40,41,108	4,88,924	+5,09,624	198	58.62
	1,260.50	12,70,23,590	1,25,02,671	52,72,688	4·15	43,94,823	4,49,065	+4,28,795	203	57.88
	1,336.97	13,01,81,876	1,36,14,478	52,19,322	4·01	44,06,500	4,37,976	+3,74,846	198	61.66
	1,340.15	13,84,82,891	1,51,02,418	65,70,760	4·92	44,71,268	6,90,759	+14,08,783	217	56.49
	1,340.15	13,55,91,056	1,57,75,957	61,81,063	4·56	45,35,974	6,02,907	+10,42,182	226	60.82
1906 .	1,340°15	13,97,87,368	1,57,32,205	58,61,913	4·19	46,13,499	5,28,858	+7,19,356	226	62*74
1907 .	1,340°15	14,50,55,112	1,66,16,416	59,81,463	4·09	43,49,484	5,21,825	+10,60,154	238	64*30
1908 .	1,340°15	15,13,95,482	1,79,07,641	71,74,075	4·74	46,94,383	7,61,052	+17,18,690	257	59*94
1909 .	1,840°15	15,50,28,745	1,83,49,539	66,59,920	4·80	44,55,997	9,70,207	+12,83,716	263	63*70
1910 .	1,340°15	16,04,60,604	1,85,32,674	71,60,233	4·46	49,39,611	11,39,494	+10,81,128	266	61*36
1911 .	1,841.85	16,48,65,768	1,92, 44, 330	66,72,090	4·05	49,91,981	9,71,526	+ 7,08,583	276	65·38
1912 .	1,341.85	17,01,08,309	2,02,44,872	81,76,037	4·81	51,39,866	14, 5 3,577	+ 15,82,594	290	59·61
1st qr. of 1913 1913-14.	1,341·85 1,341·85	17,10,28,173 17,48,43,821	68,77,4 5 1 2,2 4 ,7 7 ,9 6 5	39,30,035 1,04,50,766	2·80 5·98	13,07,826 54,01,568	10,02,157 21,70,845	+ 16,20,052 + 28,78,853	394 822	42·86 53·50
1914-15.	1,341.85	17,72,28,413	2,16,56,550	94,60,286	5:34	55,36,857	17,75,528	+ 21,48,401	310	56°32
1915-16.	1,841.85	17,80,91,834	1,99,85,692	84,33,260	4:74	56,05,925	14,11,122	+ 14,16,218	286	57°80
1916-17.	1,341.85	17,91,28,927	2,23,20,383	1,08,30,219	6:05	54,39,534	22,06,833	+ 31,84,852	322	51°48
1917-18.	1,341.85	17,84,94,701	2,22,74,705	1,04,85,250	5:87	56,39,287	†20,72,760	+ 27,78,203	319	52°93

Burma railways extensions (3' 3\frac{3}{2}" gauge)-Progress in opening-

	Sec	tion	ав о	f rail	wa y .	_			_			Date of opening.	Miles.	Total.	Grand total
			1								_	2	8	4	8
Pegu Moulmein extension- Pegu to Nyaungkashe Nyaungkashe (Sittang Kyaikto to Kawkadul Kawkadut to Martabs	(Sitte Rive	r)	to I	Cyaik	to rein)	;	:	:	:	:	:	15-4-07 15-8-07 14-9-07 25-9-07	121-27		
Hensada-Kyangin extensio Hensada to Danbi Danbi to Kyangin		:	:	:	:			:	:	:	:	1-7-07 14-12-08	13·50 52·16	121·27 65·66	
							,		Tor	PAL		•••	`		196

From 1st September 1896 to 31st December 1897.

t The surplus profits for 1917-18 were divided between Government and the Company in the proportion of £5,750,000 to 3,000,000 which works out to a ratio of 23:12.

BURMA RAILWAYS SYSTEM-contd.

Rurma railways extensions (3' 31" gauge) -contd.

Details of construction-

Parmanent-way.—The permanent-way consists of 50-lb. flat-footed steel rails laid principally on pynkado aleepers.

Ballast.—The ballast consists chiefly of broken stone and shingle.

Fencing.—The Pegu-Moulmein extension is fenced but not the Henzada-Kyangin extension. Level crossings are provided with either gates or chains and posts.

Curves .- The radius of the sharpest curve on the Pegu-Moulmein section is 1,058 feet and that on the Henzada-Kyangin section is 1,432 feet.

Gradients.—The ruling gradient is 1 in 300 on the Pegu-Moulmein extension; and 1 in 200 on the Henzada-Kyangin extension, uncompensated.

Contract, dated the 22nd February 1907 (supplemental to the contracts of 1897 and 1903, noted under Burma railways, 3' 38" gauge), between the Secretary of State and the Burma Railways Company, as to the construction, maintenance, management and working as State railways of the Pegu-Moulmein and Henzada-Kyangin extensions and the Daga loop line.

Contract, dated the 7th April 1913, (read as part of the supplementary contract of 22nd February 1907), between the Secretary of State and the Burma Railways Company, defining the manner in which the earnings of the Burma Railways Extensions shall be ascertained and in particular the proper apportionment of receipts and expenditure in connection with through traffic and of expenses of stations common to the Burma Railways and Extensions.

Contract, dated the 3rd October 1916 (supplemental to, and modifying, the contract of 22nd February. 1907) between the Secretary of State and the Burma Railways Company, as to the exclusion of the Daga loop line from the list of State railways mentioned in the contract of 22nd February 1907.

Main provisions of contracts-

- (i) Land.—As under 'Burma railways (3' 33" gauge).
- (ii) Government aid .- All moneys required for the purposes of the extensions shall be supplied by the Secretary of State according to such arrangements as shall, from time to time, be made between the Secretary of State and the Company.
-) Separate half-yearly accounts are kept for (a) the whole of the Com-(iii) Terms of working.—
- pany's system and (b) for each of the extensions, except in regard to the Revenue Abstracts B. to G., inclusive, and sub-head I of (iv) Distribution of profits .-Abstract A. which are for the system as a whole. The total working expenses of the whole system, are divided between each of the extensions and the rest of the Company's system in the ratio of their respective gross earnings, and the share of expenses so attributed, together with the maintenance expenditure relating exclusively thereto under sub-heads II to VII of Abstract A. are deemed to be the actual working expenses of each. The extensions have also to bear proportionate charges in respect of interest on capital cost of workshop buildings and plant and joint station expenses. After deducting from the gross earnings the working expenses so arrived at, the balance forms the "net revenue receipts."

The net revenue receipts for each complete financial year are applied in payment of interest at 3½ per cent per annum on the total capital outlay on each extension (including the value of land), and the mileage share of interest on the main line stores and stores suspense balances; and the residue, if any, is divided between the Government and the Company in the proportion of 3ths to the former and 4th to the latter.

- (v) Rates and fares, -As under Burma railways (3' 33" gauge).
- (vi) Special obligations as to the conveyance of .-

(a) Mails, troops, police, high Government officials and Government stores.—

(b) Government bullion and coin, and the persons in charge As under Burma railways (3' 84')

(c) Government bullion and coin, and the persons in charge

thereof.-

(vii) Power of the Government to determine contract.—

The contract may be determined on twelve (viii) Power of the Company to surrender contract.—

other on the 30th June 1919, or on the 30th June of any subsequent fifth year. If the principal contract [noted under Burna railways (8' 3\frac{3}{3}" gauge)] shall at any time be determined by virtue of its provisions, then this contract shall also thereupon cease and determine. On the failure by the Company effectually to remedy any breach of this contract or of its stipulations or provisions within six months after due notice shall have been given by the Secretary of State in England, he may, on the expiration of six months or later, determine the contract by giving to the Company in England notice in writing of such determination.

Upon the determination of the contract the Company shall give possession to the Government of the new lines, all property belonging thereto and all moneys then payable, after which the Government shall indemnify the Company against all debts and liabilities as may have been incurred with the sanction of Government and be then subsisting on account of the new lines.

(ix) Term of contract [if not determined under (vii) and (viii)] .- Not specified.

BURMA RAILWAYS SYSTEM-concld.

Burma railways extensions (3' 3%" gauge)—concid. Statistics of working—

Year,	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings:	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).		Company's share of surplus profits (based on terms of contract) attribut- able to each year.		ings per mile per week.	Propertion of expenses to earnings.
1	2	8	4	5	6	7	8	9	10	11
1907 1908 1909 1910	Miles, 184:77 186:93 186:93 186:98	Rs, 1,64,71,283 11,99,88,700 2,11,46,681 2,18,87,484	Rs. 1,68,518 9,01,008 11,19,902 12,92,969	Rs. 70,441 4,55,558 4,27,510 4,75,061	0:45 2:28 2:02 2:22	Rs. 2,10,268 6,96,054 6,97,884 7,10,276	Ra. 	Rs. -1,39,822 -2,40,496 -2,70,374 -2,85,215	Rs. 82 93 115 188	58-20 49-44 61-88 68-26
1911 1912	186.88 186.88	2,15,48,179 2,19,58,911	14,26,979 16,49,154	5,23,28 4 6,95,299	2·48 3·17	7,28,480 7,42,258		-2,05,246 -56,794	147 170	68·33 57·84
1st qr. of 1918, 1913-14, 1914-15, 1915-16, 1916-17, 1917-18,	186.98	2,19,56,590 2,80,34,165 2,21,11,074 2,20,45,399 2,20,39,576 2,19,26,878	5,58,888 21,84,418 16,42,874 17,57,188 20,69,109 20,58,705	2,81,408 10,16,827 5,11,249 6,61,927 9,73,906 9,39,431	1 · 28 4 · 62 2 · 31 3 · 00 4 · 42 4 · 28	1,86,586 7,65,057 7,71,298 7,66,222 7,26,186 7,68,577	76,635	+71,659 +1,78,058 -2,60,044 -1,06,490 +1,71,085 +1,02,704	228 225 169 181 218 212	49·19 53·45 68·88 62·33 52·98 54·87

Southern Shan States railway (3' 3%" gauge)-

Progress in opening-

		800	otion	of r	ailwa	y.						Date of opening.	Miles.	Total.	Grand total.
				1								2	8	4	5
Thazi to Kywedatson .										•		15-6-12	16.02		
Kywedatson to Yinmabin												20-8-14	6.95		
Yinmabin to Kalaw .												15-12-14	39-19	:	
Kalaw to Aungbau .	•										.	18-2-15	7.19		
Under construction o	R SA	Nori	ONBI	FOR					11. E#	GE				69-68	
· Aungban to Yawnghw	e (se	netic	oned (on 23:	rd Ji	ıl y 19	(9)						34.25	34-25	
							Gı	RANI	101	JA	:1				108-93

Details of construction-

Permanent-way. - The permanent-way consists of 60-lb. and 50-lb. flat-footed steel rails laid on pynkado, Thitya, Engzin and steel transverse peapod sleepers.

Ballast.—The ballast consists of stone and shingle.

Fencing.—Except at stations, the line is unfenced.

Curves.—The radius of the sharpest curve on the open section is 338 69 feet.

Gradients.—The ruling gradient on the open portion is 1 in 25.

Contracts-

The construction of the line up to Aungban was carried out for the State by the Burma Railways Company which is also working the open section pending the execution of an agreement which is under consideration.

Statistics of working—

Your.	end of	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construc- tion.	Gross earn- ings.	Net earn- ings.	Percentage of net earn- ings on total capital outlay given in column (3).		companys' share of surplus pro- fits (based on terms of contract) allributable to each year.	LOSE TO	Earn- ings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	. 8	9	10	11
1912	1	Rs. 83,94,876 97,06,426	Re 11,090 5,797	3,635	0.09 0.04	Rs. 77,336		Rs. -73,701	Rs. 25 28	26·52 37·28
1918-14 1914-15 1915-16 1916-17 1917-18	28.00 70.25 69.68 69.68 69.68	1,32,95,785 1,52,66,096 1,55,97,886 1,53,£1,017 1,54,83,725	83,020 87,016 3,39,165 3,88,109 4,39,885	5,999 21,414 55,277	0:04 0:14 0:36 0:15	4,06,028 4,99,719 5,85,702 5,09,985 5,38,345		-4,12,074 -4,93,720 -5,14,288 -4,54,658 -5,10,396	28 24 94 98 131	118.83 98.10 98.68 83.65 94.78

CHICKJAJUR-CHITALDRUG RAILWAY (3' 33" gauge).

This line was sanctioned for construction by the Mysore Durbar in Foreign and Political Department Letter No. 128-I.B., dated the 28th January 1914. Work is in progress.

Progress in opening-

Section of railway.					Date of opening.	Miles.	Total.
1					2	3	4
Chiekjajur to Chitaldrug (sanctioned on 28th January 1914)	•	•	•	•	•••	21.07	31.07

DIBRU-SADIYA RAILWAY SYSTEM.

Chairman .- The Lord Ribblesdale. Secretary .- S. Maclean Jack, Esq.

Offices. - Blomfield House, 85, London Wall, London, E.C.

Date of registration of the Company .- 30th July 1881.

Lines comprised in the system. - The Dibru-Sadiya railway system is made up of-

(a) Dibra-Sadiya railway (3' 3½" gauge) (b) Ledo and Tikak Margherita Colliery railway (3' 3½" gauge)	:	:	:	:	;	:	:	:	:	86.02 5.20	
							Tot	al		91.52	

Dibru-Sadiya railway (3' 3\squage) —

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.
1	2	3	4	5
Main line— Lower steamer ghat on the left bank of the Brahmandta river, near Dibrugarh Bazar, castward as far as the Dinjan stream Dinjan stream to Makum Janotion Makum Junction to Dum-Duma Dum-Duma to Talap	15-8-82 16-7-83 2-5-84 5-2-85	15:00 23:50 10:00 6:00	34:50	
Makum branch— Makum Junction to Dihing bridge	2-5-84	23:00	23.00	
Saikhoa estension— Talap to Saikhoa Ghat	1-5-10	8.52	8-52	
GRAND TOTAL .		•••		86.02

Details of construction-

Permanent-way .- Of the main line and Makum branch, 27 1 miles are laid with 60-lb. and the remainder with 50 and 411-lb. flat-footed steel rails laid on sal, nahor and uriam sleepers and on cast-iron plates of the Denham-Olpherts' type. The Saikhoa extension is laid for 31 miles with 50-lb. rails and for the remainder with 411-lb. rails on uriam sleepers.

Ballast .- The main line is ballasted throughout, and the branch line partially, with broken stone.

Fencing.—The line is unfenced, with the exception of a short length at Dibrugarh.

Curves. - The sharpest curve is of 700 feet radius.

Gradients .- The ruling gradient is 1 in 150 on the main line and 1 in 100 on the Saikhoa extension.

Contracts-

Dated the 26th May 1880 (called the principal contract) between the Secretary of State and the Assam Railway Company, subsequently called the Assam Railways and Trading Company, as to the construction, maintenance, management and working of the Dibru-Sadiya railway with branches.

Dated the 25th July 1881 (supplemental to that of 1880) between the Secretary of State and the Assam Railways and Trading Company, modifying the contract of 1880 and providing that the Company shall have the preferential option for the construction and working of any other line(s), in the Luckimpore District—an option which has since been surrendered in consideration of an undertaking by the Secretary of State that the Government right of purchase shall not be exercised until after 1910, vide letter from the India Office to the Company's London Board, No. 2193, dated the 13th December 1898.

Letter No. 1758 P.W., dated the 31st March 1905, from the Honourable the Chief Commissioner of Assam to the Government of India in the Department of Commerce and Industry;

Telegram No. R. P. 5, dated the 11th May 1905, from the Railway Board to the Honourable the Chief Commissioner of Assam;

as to the construction of the Saikhoa extension.

Dated the 28th October 1914 (supplemental to those of 1880 and 1881) between the Secretary of State and the Assam Railways and Trading Company, as to the maintenance and working of the Saikhon extension, the alteration in the dates for the exercise of the option of purchase of the Company's railway and the adoption of the Government Financial year for the preparation of accounts.

Main provisions of contracts-

(i) Land .- Provided by the Government free of cost to the Company.

(ii) Government aid .- Annual subsidy on the main line for 20 years from the date of opening, not exceeding Rs. 80,000 in any one year, or such smaller sum as, added to net carnings of the main line, will make up 5 per cent on the paid-up capital (exclusive of cost of Makum Branch).

Annual subsidy on the Makum branch for 20 years from the date of opening, not exceeding

Rs. 20,000 in any one year, or such smaller sum as, added to the net earnings of the branch, will make up 5 per cent on the capital cost.

Annual subsidy on the Saikhoa extension for 10 years from the date of opening at the

rate of Rs. 600 per mile.

DIBRU-SADIYA RAILWAY SYSTEM -contd.

Dibru-Sadiya railway (3' 3 gauge)-concld.

Main provisions of contracts-concid.

The subsidies are subject to deduction if the Company fail to keep the line in good order and properly equipped, and to work it.

- (Note.-The period of subsidy, for the main line and Makum branch, terminated as from the 30th June 1903, vide letter from the Honourable the Chief Commissioner of Assam in the Public Works Department, to the Examiner of Public Works Accounts, Assam, No. 1739-P. W./2898. dated the 11th June 1894.)
- (iii) Distribution of profits.—All the profits go to the Company.
 (iv) Rates and fares.—To be approved by the Government. If, after five years from the date of opening of the main line, the net profits of the Company exceed 12 per cent of their paid-up capital, the Government may require the Company to make such reduction in their rates and fares as shall not lead to a diminution of the net profits below 12 per cent.
- (v) Special obligations as to the conneyance of .-
 - (a) Mails, troops, high Government officials and Government stores .- To be conveyed at rates to be agreed upon from time to time, not exceeding those now paid in the district concerned.

 (b) Government bullion and coin, and the persons in charge thereof.—Not specified.
- (vi) Power of the Government to determine contract.—If the Company fail, for a period extending over six months, to observe its obligations, the Government may determine the contract and call upon the Company to restore the land, &c., made over to it. The Government has the option of purchasing the railway, and its rolling-stock and other equipments and property of the Company, on the 5th February 1921, or at intervals of ten years thereafter, on giving one year's notice and paying 20 per cent in excess of the value of the property as a dividendpaying investment.
- (vii) Power of the Company to surrender contract .- Nil.
- (viii) Term of contract [if not determined under (vi) or (vii)] .- None specified.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907).—

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross carnings.	Net carnings.	on total	Subsidy from local Govern- ment.	Total income,	Percentage of total income on total capital outlay given in column (3).	Earn- ings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	- 8	9	10	11
1908 . 1909 . 1910 .	Miles 77:50 77:50 86:02	Rs. 93,24,383 95,64,604 97,16,646	Rs. 10,24,770 11,09,679 11,20,604 11,88,873	Rs. 4,47,121 4,84,171 4,46,417 4,30,708	4.80 5.08 4.59	Rs 5.112	Rs. 4,47,121 4,84,171 4,46,417 4,35,820	4·80 5·06 4·59	Rs. 254 275 278 266	56 87 56 37 60 16
1911 . 1912 .	86 02	1,06,29,497	13,08,470	5,61,887	5.50	5.112	5.66 939	5:38	293	57.06
1st qr. of 1913. 1913-14 . 1914-15 . 1915-16 . 1916-17 . 1917-18	86.02 86.02 86.02	1,06,58,110 1,09,70,086 1,11,66,228 1,14,19,360 1,16,14,769 1,17,38,173	3,57,078 18.54,970 12,92,241 14,18,609 14,26,539 14,40,889	1,58,859 6,03,160 4,88,264 5,51,050 5,57,813 5,00,091	1°49 5 50 4°37 2'83 4'81 4°26	5,112 5,112 5,112 5,112 5,112 5,112	1,58,859 6,08,272 4,93,376 5,56,162 5,62,925 5,05,203	1·49 5·54 4·42 4·87 4·85 4·34	319 808 289 817 319 822	55:51 55:49 62:21 61:16 60:90 65:29

Ledo and Tikak-Margherita Colliery railway (3' 33" gauge) -

This line was constructed by the Assam Railways and Trading Company in 1883, under the sanction of a concession granted in an Indenture made with the Secretary of State on the 30th July 1881, and was used originally only for the purpose of bringing coal from the mines on the south bank of the Dihing river to connect with the Dibru-Sadiya railway. It was constituted a railway and its working was taken over by the Dibru-Sadiya railway from the 1st January 1897.

Progress in opening-

	Section of	railway.							Date of opening.	Miles.	Total.
			 					_	2	3	4
Dihing bridge to Ledo				٠	•	•	•	•	17-2-84	5.50	5.50

Details of construction-

Permanent-way .- The lune is laid with 50-lb. flat-looted steel rails on uriam sleepers.

Ballast .- The line is ballasted with broken stone.

Fencing.—The line is unfonced.
Curves.—The sharpest curve is of 800 feet radius.

Gradients .- The ruling gradient is 1 in 100.

DIBRU-SADIYA RAILWAY SYSTEM -concld.

Ledo and Tikak-Margherita Colliery railway (3' 38" gauge)-concld.

Contract-

- Letter, from the Government of India in the Public Works Department, No. 623 R.T., dated the 6th August 1896, as to the carriage of goods over the Company's Colliery line and for the through booking of the same with stations on the Dibru-Sadiya railway.
- Resolution by the Government of India in the Public Works Department, No. 234 R.T., dated the 11th March 1897, as to the application of the general rules for working open lines of railway to the Company's Colliery line.
- Contract, dated the 26th February 1903, between the Secretary of State and the Assam Railways and Trading Company, as to the grant of a new lease to the Company for working the coal mines in the Makum coal-fields for a period of 30 years from the 30th July 1901 and for the exercise of the privileges granted in connection therewith.

Main provisions of contract-

- (i) Land.--Mines and promises leased to the Company at a fixed half-yearly rental, or in lieu of such rent a certain royalty on the out-put of coal.
- (ii) Government aid .-- Nil.
- (iii) Terms of working.—All charges for working the open line system are divided between the Dibru-Sadiya railway and the Colliery branch in proportion to their respective gross earnings. For hire of rolling-stock provided by the Dibru-Sadiya railway, 5 per cent of gross earnings are charged to the Colliery.
- (iv) Rates and fares.—Certain station to station goods rates have been approved in the Government of India letter noted above.
- (v) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Government officials and Government stores.—

 Not specified.

 (b) Government bullion and coin, and the persons in charge thereof.—
- (vi) Power of the Government to determine contract.—The Government may determine the contract and take possession of the mines if the Company fail to fulfil its obligations. On the termination of the contract the Government may purchase buildings and works at a fair valuation.
- (vii) Power of the Company to determine contract.—The Company may determine the contract if the mines become destroyed or are rendered unlit through any extraordinary casualty. On the termination of the contract the Company is to take away all machinery, etc., belonging to the mines and the railways or tramways constructed for the purpose of working the mines, unless the Government shall be willing to purchase the same.
- (viii) Power of the Company to surrender contract .- Nil.
- (ix) Term of contract .- 30 years from 30th July 1901.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907).—

		Yes	ır.				Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
		1					2	3	4	5	6	7	8
							Miles.	Rs.	Rs.	Rs.		Rs.	
1908 . 1909 . 1910 .	:	:		:	:	:	8:50 5:50 5:50	16,94,069 16,94,069 16,94,069	69,175 79,905 80,288	30,486 34,891 32,441	1:80 2:06 1:91	156 219 281	55.93 56.33 59.61
1911 . 1912 . 1st qr. of 1918-14 1914-15 1915-16 1916-17 1917-18	19	18	•				5:50 5:50 5:50 5:50 5:50 5:50 5:50	16,94,069 10,94,069 16,94,069 16,94,069 16,94,069 16,94,069 16,94,069	83,118 96,954 22,965 92,068 99,609 96,680 94,080 94,876	30,429 41,957 10,188 40,821 38,190 87,755 36,149 32,856	1.80 2.48 0.60 2.41 2.25 2.23 2.13	291 839 331 822 848 838 829 833	68:39 56:72 55:96 55:66 61:65 80:95 61:53 65:87

GONDAL-PORBANDAR STATE RAILWAY SYSTEM.

Lines comprised in the system - The Gondal-Porbandar State railway system is made up of-

(a) Gondal-Porbandar State railway (3' 31" gauge) (b) Jetalaar-Bajkot railway (3' 31" gauge) (c) Khijadiya-Dhari railway (3' 31" gauge)	٠	:	•	٠	•		•	Open inc. Miles. 148'01 46'21 37'22
					To	tal		931-44

Gondal-Porbandar State railway (3' 3%" gauge)-

This line was constructed by Government agency for the Native States of Gondal and Porbandar (after which it is named). It was worked up to the 31st March 1911 by an Administrative Coalition of the States of Bhavnagar, Gondal, Junagad and Porbandar, which was formed for the purpose of working as one undertaking the railways which, prior to that date, were comprised in the Bhavnagar-Gondal-Junagad-Porbandar railway system. The Coalition ceused to exist on the 1st April 1911, on and from which date the line is being worked independently as a separate railway by the Coalition of the Gondal and Posbandar States. Gondal and Porbandar States.

Progress in opening -

Sections of railway	y.		Date of opening.	Miles.	Total.	Grand total.	Remarks.
1			3	8	4	5	6
Main line — Dhasa to Dhoraji Dhoraji to Porbandar Porbandar to Porbandar Bands Quarry branch— Banawao to Quarry	r	:	19-1-81 1-10-89 15-3-80 17-12-89	78:69 69:07 *1:55	144°81 3°70		•Is worked for good traffic only.
	TOTAL.					148-01	

Details of construction-

Permanent-way .- The permanent-way consists of 411-lb. flat-footed steel rails on creosoted pine, deodar. jodka, teak and steel peapod sleepers.

Ballast.—The line is ballasted with broken stone.

Fencing.—The line is practically unfenced.

Curves.—The sharpest curve is of 716 feet radius.

Gradients .- The ruling gradient is 1 in 200, except on Ranawao quarry line where it is 1 in 67.

Agreement-

Nil.—The line is owned and worked by the Gondal and Porbandar States.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construc- tion.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings por mile per week.	Proportion of expanses to earnings*
1 1	2	3	4	5	: 6	7	8
1911	Miles. 148:01 148:01 148:01 148:01	Ra. 66,86,812 68,02,518 68,91,364 71,22,318	Re. 9,14,260 8,94,189 3,01,847 9,85,264	Rs. 4,94,616 4,46,293 1,83,987 5,15,819	6:92 6:22 10:08 6:86	119 116 157 128	46:99 50:09 39:06 47:65
1914-15	148-01 149-01 148-01 148-01	72,52,416 78,77,992 74,77,144 76,47,747	9,65,145 10,18,762 10,41,068 11,96,312	4,40,485 5,82,081 4,80,728 5,77,924	5'78 6'84 6'06 7'13	125 192 135 155	54°87 47°77 58°82 51° 69

Excluding ontlay on the lines, Porbandar to Porbandar Bandar and Ranawao to quarry.

Jetalsar-Rajkot railway (3'31" gauge) .--

This line was constructed and was, up to the 31st March 1911, worked by an Administrative Coalition of the States of Bhavnagar, Gondal, Junagad and Porbandar, which was formed for the purpose of working as one undertaking the railways which, prior to that date, were comprised in the Bhavnagar-Gondal-Junagad-Porbandar railway system. The Coalition ceased to exist on the 1st April 1911, on and from which date the line is being worked by the Administration of the Gondal-Porbandar State railway.

Progress in opening-

		8	ection	n of r	ailwa	ıy.					Date of opening.	Miles.	Tota
		1									2	8	
Jetalear to Rajkot Junction	•			•	•	•	•	•	•	•	12-4-98	46.51	46-21

GONDAL-PORBANDAR STATE RAILWAY SYSTEM-contd.

Je!alsar-Rajkot railway (3' 33" gauge)-concld.

Details of construction-

Permanent-way. - The permanent-way consists of 411-lb. flat-footed steel rails on creosoted pine, deodar and jodka teak sleepers, except for five miles where the rails are laid on steel trough sleepers.

Rallast -The ballast used is of broken stone.

Fencing.—The line is unfenced except between Rajkot Para and Rajkot Junction.

Curves .- The sharpest curve is of 955 feet radius.

Gradients .- The ruling gradient is 1 in 175.

Agreement-

Memorandum of conditions for separate working, from 1st April 1911, of the Kathiawar railways sanctioned in the Government of India, Foreign Department, letter No. 431 I.B., dated the 23rd February 1911, to the address of the Secretary to the Government of Bombay, Political Department.

Terms and conditions, dated the 14th December 1913, prescribed by the Railway Board, as to the maintenance, management and working of the Jetalsar-Rajkot railway.

Main provisions of agreement-

- (i) Land .- Provided, at the cost of capital, by the Native States through whose territories the line
- (ii) Government aid.—Nil. The line is the property of the States of Junagad, Gondal and Rajkot and the Talukdar of Jetpur, who supply funds for any necessary additions thereto chargeable to the capital account. It is maintained and worked by the agency of the Gondal-Porbandar State railway, which provides the rolling-stock and other appliances, etc., necessary thereunto.
-) 40* per cent of gross earnings (subject to a biennial revision) are (iii) Terms of working .-(iv) Distribution of profits.—

 * 35 per cent in those half-years in which the retained by the working gross carnings per mile per week exceed Rs. 50.

 * 36 per cent in those half-years in which the agency, plus actual
- expenditure on maintenance of way works and stations, police charges, and 5 per cent of gross carnings for hire of rolling-stock supplied by the working agency.
- (v) Rates and fares .-
- The same as those in force on the Gondal-Porbandar State railway. (vi) Special obligations as to the conveyance of .-(a) Troops, police, high Government officials and stores .-
 - (b) Bullion and coin .-
- (vii) Power of the Government to determine agreement.—The Railway Board shall exercise the powers of an arbitrator.
- (viii) Power of the Proprietors to determine agreement.-Nil.
- (ix) Term of agreement. None specified.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907)—

	You	r.	Miloage open at ond of oach year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net carnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
	1		 2	3	4	5	- 6	7	8
-			Miles.	Rs.	Re.	Rs.		Rs.	
1908 1909 1910	:	:	46:21 46:21 46:21	16,00,937 1 6,03,140 16,13,883	2,49,957 2,44,104 2,74,868	1,11,178 1,01,808 1,24,701	6:94 6:85 7:72	104 108 114	55 52 58 29 54 68
1911 1912 1st qr 1913-1 1914-1 1915-1 1916-1	4 . 5 . 6 . 7 .	.913	 46:21 46:21 46:21 46:21 46:21 46:21 46:21 46:21	16,13,689 16,14,853 16,18,950 16,20,100 16,26,937 16,33,978 16,38,978 16,53,255	2,92,000 3,51,069 1,11,588 4,07,551 4,09,160 4,40,225 4,79,142 5,19,197	1,29,680 1,82,072 62,961 2,18,947 2,11,178 2,31,636 2,30,053 2,70,782	8:04 11:27 15:56 -13:51 12:98 14:18 14:08 16:38	122 146 186 170 170 183 199 216	55:50 48:14 48:58 46:30 48:39 47:38 51:99 47:95

GONDAL-PORBANDAR STATE RAIL WAY SYSTEM -concld.

Khijadia-Dhari railway (3' 3%" gauge)-

The construction of this line by the Baroda Durbar was sanctioned by the Secretary of State for India in his despatch No. 16 Railway, dated the 7th February 1913.

Progress in opening-

	Section	ons c	f rail	lway.						Date of opening.	Miles.	Total,
		1				 		_	 	3	8	4
Khijadia to Gavadka	١.				•					 1- 3 -13	16-39	
Gavadka to Chalala										· 10-8-14	9.14	
Chalala to Dhari										27-5-16	11:69	
						тот	A L		•			87 22

Details of construction-

Permanent-way. - The permanent-way consists of 411-lb flat-footed steel rails laid on jarrah sleepers.

Ballast.—The line is ballasted with moorum.

Fencing .- The station platforms only are fenced.

Curves .- The sharpest curve has a radius of 2,865 feet.

Gradients.-The ruling gradient is 1 in 200.

Agreement-

The line was constructed by the Baroda Durbar at its own cost and made over to the Gondal-Porbandar State railway for working from 1st March 1913 under the following terms:—

Main provisions of agreement-

- (i) Land,-Provided at the cost of capital.
- (ii) Government aid.—Nil. The line is the property of the Baroda Durbar and is worked by the Gondal-Porbandar State railway.
- (iii) Terms of working.—40* per cent of gross carnings (subject to a biennial revision) are retained by

 *Reduced to 35 per cent in those balf-years in which the gross carnings per mile per week exceed maintenance of way, works and stations, police Rs. 50.

 joint works and joint station expenses at Khijadia Junction and 5 per cent of gross carnings for hire of rolling-stock supplied by the working agency.
- (iv) Distribution of profits.—The whole of the net earnings are paid over to the Baroda Durbar.
- (v) Rates and fares .-
- (vi) Special obligations as to the conveyance of.—

 (a) Mails, troops, police, high Government officials and Government stores.—

 Government stores.—

 The same as those in force on the Gondal-Porbandar State railway.
 - (b) Government bullion and coin, and the persons in charge thereof.—
- (vii) Power of the Government to determine agreement.
- (viii) Power of the Proprietors to determine agreement .-
- (ix) Term of agreement .- 5 years from 22nd May 1913.

Statistics of working-

Year \	Mileage open at end of each year.	Total capital outlay, in- cluding suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construc- tion.	Gross earnings.	Net earnings.	Percentage of net carnings on total capital out lay given in column (3).	Earnings per mile per week.	Proportic of expenses to earnings.
1	2	3	4	5	6	7	8
1st qr. of 1918	Miles. 16:39	Rs. 9,25,655	1,000	Bs. 650†	0.38	Rs. 15	85'00
1918-14	25.53	13,65,967	28,940	14,940†	1.09	88	48-26
1914-15	25.58	16,64,256	49,441	23,550	1.42	87	52.84
1915-16	25.58	19,12,637	47,522	2,710	0.14	36	94:80
1916-17	87-22	19,55,078	69,132	18,420	0.94	88	78.86
1917-18	37.22	19,54,370	· 82,997	18,018	0.67	48	88.24

JAMNAGAR RAILWAY (3' 8%" gauge).

This line was constructed for the Navanagar State and was, up to the 31st March 1911, worked by an Administrative Coalition of the States of Bhavnagar, Gondal, Junagad and Porbandar, which was formed for the purpose of working as one undertaking the railways which, prior to that date, were comprised in the Bhavnagar-Gondal-Junagad-Porbandar railway. The Coalition ceased to exist on the 1st April 1911, on and from which date the line is being worked independently as a separate railway.

Progress in opening-

8	ection	ns of	railv	ay.				Date of opening.	Miles.	Total.	Remarks.
		1			 			 2	8	4	5
Rajkot Junction to Jamnagar	•	•		•	•			8-4-97	50-20		
Jamnagar to Bedi Bandar .								8-4-97	# 3·93		Worked for goods traffic
						Тот	▲ ₹,			54.22	only.

Details of construction-

Permanent-way.—The permanent-way consists of 414-lb. flat-footed steel rails on crossoted pine, deoder and jodka teak sleepers.

Rallast.-The ballast used is of broken stone.

Fencing.—The line is unfenced, except at the approaches to the Victoria bridge near Jamnagar and to the south of the Jamnagar station yard.

Curves .- The sharpest curve is of 1,000 feet radius.

Gradients.-The ruling gradient is 1 in 200.

Agreement-

Nil .- The line is owned and worked by the Navanagar State,

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

		Y	ar.				Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net carnings.	Percentage of net earnings on total capital outlay given in column(3).	Earnings per mile per week.	Proportion of expenses to carnings.
			1				2	3	4	5	6	7	8
. '							Miles.	Rs.	Ra.	Rs.		Re.	
1908 . 1909 . 1910 .	:			:	:	:	54-22 54-22 54-32	23,26,945 23,24,854 23,82,069	2,36,715 2,37,240 2,44,143	1,24,911 1,15,995 1,20,818	5:37 4:99 5:16	84 84 87	47:23 51:11 50:72
1911 . 1912 . 1st qr. of 1913-14 1914-15 1915-16 1916-17 1917-18	1918		•	:	: : : : : : : : : : : : : : : : : : : :		54:22 54:28 54:22 54:22 54:22 54:22 54:22 54:22	23,27,124 23,35,655 28,53,625 23,53,951 23,70,806 23,96,173 24,08,046 24,25,001	2,45,870 2,38,486 78,911 2,91,782 3,01,245 3,28,354 3,43,360 3,74,024	1,17,260 98,643 41,274 1,55,756 1,09,605 1,45,755 1,46,315 1,76,505	5·04 4·22 1·75 6·62 4·62 6·08 6·97 7·28	87 85 112 103 107 115 122 138	52:30 \$8:64 47:70 46:62 63:62 54:92 57:39 52:81

Lines comprised in the system.—The Jodhpur-Bikaner railway system is made up of-

									Open line.	construction or sanctioned for construction.	Total.
(a) Jodhpur-Bikaner railway (Jodhpur section (b) Jodhpur-Bikaner railway (Bikaner section) (c) Jodhpur-Hyderabad railway (British section	(3' 3	1 8	ange)		:	:	:	:	Miles. 606*75 497*66 123*98	Miles. 77:83 182:03	Miles. 686-88 629-69 123-98
(d) Mirpur Khas-Jhudo railway (8' 3\frac{3}" gauge) (e) Mirpur Khas-Khadro railway (3' 3\frac{3}" gauge) (f) Pipar-Bilara Light railway (2' 0" gauge)	:	:	:	:	:	:	:	:	50°48 49°50 25°25	•••	50:43 49:50 25:25
						To	tal		1,855:57	209.86	1,565:43

Jodhpur-Bikaner railway (Jodhpur section) (3' 3%" gauge)--

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.
1	2	3	4	3
Main line-	1	1		
Kuchaman Road to Merta Road ,	13-3-93	73.00		
Merta Road to Jodhpur	8-4-91	64.00		ł
Jodhpur to Luni Junction	9-3-85	20.00		l .
Luni Junction to Balotra	22-3-87	50.00		ł
Balotra to Barmer	15-5-99	60.00		1
Barmer to the Jodhpur Frontier	22-12-00	74'44	341.44	1
Branches and extensions-			001 W	
Puchpadra branch-				ļ
Balotra to Pachpadra	22-3-87	10.00	10:00	1
Marwar Railway Junction extension -			10 00	
Luni Junction to Marwar Pali	17-6-84	25.00		1
Marwar Pali to Marwar Railway Junction .	27-7-82	19.00	44.00	ı
Phalodi branch-			44.00	
Jodhpur to Osian	21-9-13	34.28		1
Osian to Marwar Lohawat	17-3-14	27.22		!
Marwar Lohawat to Phalodi	12-5-14	17:69	79:19	
Merta City branen-	1	`	70 13	
Merta Road to Merta City	18-1-05	8.95	8-95	
Bhagu extension-			0.75	1.
Merta Road to Nagaur	16-10-91	35.00		1
Nagaur to Bhagu	9-12-91	24.20	59:50	1
Marwar Frontier extension-			39.50	
Degana to Marwar Frontier	16-9-09	61.11	61.11	
Ladnu Extension-			01.11	
Jaswantgarh to Ladnu	20-12-15	4.26	4:56	
TOTAL OPEN MILEAGE				608 75
Under construction or sanctioned for construction-	-			
Marwar Junction to Sanderao (sanctioned on 10th		77:83		1
July 1914).	-		77.83	İ
	1			77.83
GRAND TOTAL .				686-58

Details of construction-

Permanent-way.—About 11 miles of the line are laid with 36-lb. flat-footed iron rails, 189 miles with 36-lb. 45 miles with 412-lb. and 363 miles with 50-lb. flat-footed steel rails. The sleepers are steel trough, deodar, sâl, maiyang and creosoted pine.

Ballast.—On the greater portion of the line the ballast consists of coarse sand, kunkur and broken stone. Fencing.—With the exception of a few stations, the line is unfenced.

Curves .- There are no curves with a radius of less than 1,000 feet.

Gradients.—The ruling gradient is 1 in 150, except at mile 0-1 on the Phalodi branch where the steepest gradient is 1 in 130.

Jodhpur-Bikaner railway (Jodhpur section) (3' 3%" gauge)-concld.

Agreements-

Dated the 13th July 1889 | between the Government of India on the Bikaner and Jodhpur Durbars, Dated the 30th July 1889 | respectively, as to the construction (at the cost of the two Durbars for the portions in their respective territories), management, maintenance and working of the Jodhpur-Bikaner railway.

Dated the 22nd December 1900, between the Government of India and His Highness the Maharaja of Jodhpur and the Council of Regency, Bikaner, as to the construction (at the cost of the Jodhpur Durbar and of the Government of India for the portions in their respective territories) of a railway from Balotra to Hyderabad, and for the management, maintenance and working thereof by the Jodhpur-Bikaner railway, as modified by—

Letter from the Government of India in the Public Works Department, to the Agent to the Governor General for Rajputana, No. 255 R.T., dated the 6th March 1900, and the reply thereto;

Letter from the Railmay Board to the Agent to the Governor General for Rojputana, No. 1537 R.T., dated the 20th August 1908; and

Letter from the Railway Board to the Agent to the Governor General for Rajputana, No. 2197 R.S., dated the 26th October 1908, and the reply thereto.

Main provisions of agreements-

- (i) Land .- Provided free of cost -- that in Jodhpur territory by the Jodhpur Durbar and that in Bikaner territory by the Bikaner Durbar.
- (ii) Government aid.—Nil. The Jodhpur-Bikaner railway is the exclusive property of the two Native States—the portion in Jodhpur territory belonging to the Jodhpur Durlar, that in Bikaner territory to the Bikaner Durbar—each of which provides the funds requisite for its own line.
- (iii) Distribution of profits.—Each of the two Durbars receives all the profits derived from the working of the pertion of the line situated in its territory.
- "(iv) Rates and fares. -- Certain maxima and minima have been fixed, between the limits of which the Railway Administration can vary the rates and fares quoted for goods and coaching traffic.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.

 (b) Government bullion and coin, and the persons in charge thereof.

 Not specified; but certain rates and
- fares were approved by executive orders of the Durbars.
- (vi) Power of the Government to determine agreements.
 (vii) Power of the Durhars to determine agreements.

 None specified.
- (viii) Term of agreements.—

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway ministration Report for 1907.)

,	í eu r	•		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.		Net earnings.		Earnings per mile per week.	Proportion of expenses. to earnings.
	1			3	3	4	5	6	7	8
			·	Miles.	Rs.	Rs.	Rs.		Rs.	
1908 1909 1910	:	:		463:89 525:00 525:00	1,42,85,467 1,43,06,908 1,44,92,736	19,28,235 21,10,217 26,90,468	8,65,023 10,19,529 1 5,49 ,703	6106 713 1069	80 77 99	55·14 51·69 42·40
1911 1912 1st qr. of 1913-14 1914-15 1915-16 1916-17 1917-18	i 191	3:		525:00 525:00 526:00 586:50 604:19 608:75 608:75	1,47,54,392 1,62,57,742 1,69,58,945 1,84,49,723 1,95,50,058 1,99,91,257 2,04,66,528 2,04,44,538	35,12,004 38,58,597 8,56,541 35,84,107 30,69,518 44,82,377 45,70,000 55,18,464	20,39,445 21,32,276 5,09,800 17,48,754 14,66,772 26,14,214 24,73,885 32,85,831	13:82 13:12 3:01 9:48 7:50 13:08 12:09 16:07	129 141 126 118 98 142 144	41-93 44-74 40-46 51-21 52-21 41-68 45-87 40-89

Jodhpur-Bikaner railway (Bikaner section) (3' 3% gauge) -

Progress in opening-

Sections	of rail	way.					Date of opening.	Miles.	Total.	Grand total
	1						2	3	· •	
Main lina Bhagu to Bikaner Bikaner to Dulmera Dulmera to Lunkransar Lunkransar to Suratgarh Suratgarh to Bhatinda			:	:	:		9-12-91 2-6-98 1-1-01 9-9-02	47:60 42:00 8:32 63:53 88:00	***************************************	e menunikan des an
Hissar Extension— Manwar Frontier to Sujang Sujangarh to Ikatangarh Ratangarh to Churu Churu to Hissar		:	:	:	:		16-9-09 2-2-10 22-5-10 8-7-11	1:42 - 28:56 - 26:61 - 79:36	249:45	
nkaner-Ratangarh Chord — Bikaner to Ratangarh	·				٠		24-11-12	81:97	135'95	T
Sardarshahr extension Hudera (2 miles from Ratan	garh) t	o Sard	larsh	nlie			1-3-16	27:29	84-97 27:29	
Under construction or	OTAL O				NSTRU	·c-				497.6
Hanumangarh to Sadulpur Bikaner to Kolayat		San O	etion etobe			d {		1 05·00 27·03	132.03	
								ŀ	100 00	132.0
	(BRANT	TOT	'A L	•					639

Details of construction-

Permanent-way.—The permanent-way consists of flat-footed steel rails of 50 lbs. per yard for about 263 miles, 414 lbs. per yard for about 5 miles, and 36 lbs. per yard for 230 miles laid on steel trough, deadar and sål sleepers.

Ballast.—The ballast consists of coarse sand and small kunkur, except on the Suratgarh-Bhatinda section where it is broken brick and kunkur.

Fencing. - The line is unfenced, except at a few stations.

Curver .- The sharpest curve is of 95 5 feet radius.

Gradients .- The ruling gradient is 1 in 150.

Agreements-

Main provisions of agreements-

As noted under Jodhpur-Bikaner railway (Jodhpur section).

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)

,	Yea	ır.			Mileage open at end of each year.	Total capital outlay, including suspense, to ond of oach year, i.e., outlay on (i) lines open and (ii) lines partly or whelly under construction.	earnings. carnings.		Percents age of net earnings on total cupital outlay given in column (3).	Earnings per milo per week.	Proportion of expenses to earnings.
		1			2	3		5	6	7	-
				1	Miles.	Rs.	Re.	Rs.		Rs.	
1908 1909 1910	:		:	:	245:35 251:35 306:04	75,07,922 75,86,367 82,04,896	7,74,785 7,82,156 10,61,570	3,49,859 3,16,844 6,07,372	4:66 4:20 7:40	61 60 67	54-84 19-49 42-79
1911 1912 Int qr. (1918-14 1914-15 1916-17 1917-18	; : :	918			385:40 470:37 470:37 470:37 470:37 497:66 497:66	97,82,232 1,06,06,494 1,07,55,915 1,10,91,063 1,17,65,712 1,21,84,077 1,20,7,874 1,21,04,054	14 08,926 16,53,041 5,30,710 18,72,388 17,65,677 21,46,094 19,14,090 18,39,443	8,18,468 8,58,360 3,16,338 9,71,270 8,82,773 10,51,032 8,49,179 10,18,736	8:37 8:09 2:94 8:80 7:50 8:66 7:04 8:42	70 68 87 77 72 83 74	41 70 48 07 40 39 48 18 50 00 51 08 55 64 44 68

Jodhpur-Hyderabad railway (British section) (3' 3%" gauge)-

Progress in opening-

	Sections of ra	ilway.		Date of opening.	Miles.	Total.	BEMARKS.
	1			2	3	4	5
Hyderabad to	Shadipalli			18-8-92	55.49		The line from Hyderabad
Shadipalli to t	the Jodhpur F	rontier		23:12-00	68:49		to Shadipalli was origi- nally on the 5'6" gauge
		Tora	ь.			123.98	but was converted to and opened on the 3'34" gauge on the 20th Octo-
							ber 1901,

Details of construction-

Permanent-way.—The section is laid with 50-lb. flat-footed steel rails on deodar creosoted pine, sal, jarrah and maiyang sleepers.

Ballast .- The ballast is of kunkur, stone and broken brick.

Fencing.—With the exception of a few stations and about 34 miles, between Shadipalli and Chhor, the line is unfenced.

Curves .- There are no curves with a radius of less than 1,000 feet.

Gradients .- The ruling gradient is 1 in 150.

Agreement and contracts-

Agreement, dated the 22nd December 1900, between the Government of India and His Highness the Mahuroja of Jodhur and the Council of Regency. Bilaner, as to the construction (at the cost of the Jodhur Durbar and of the Government of India for the portions in their respective territories), of a railway from Balotra to Hyderabad, and for the management, maintenance and working thereof by the Jodhur-Bikaner Railway Administration, as modified by—

Letter from the Government of India in the Public Works Department, to the Agent to the Governor General for Rojuntana, No. 255 R.T., dated the 6th March 1900, and the reply thereto;

Letter from the Railway Board to the Agent to the Governor General for Rajputana, No 1537 R.T., dated the 20th August 1908; and

Letter from the Railway Board to the Agent to the Governor General for Rajpulana, No. 2197 R.S., dated the 26th October 1908, and the reply thereto.

Contract, dated the 13th July 1911, between the Secretary of State and the Sind Light Railways, Limited, as to the construction, management, maintenance and working, by the Administration of the Jodhpur-Bikaner railway (or any State, or other agency), of the Mirpur Khas-Jhudo railway.

Centract, dated the 16th September 1912, hetween the Secretary of State and Their Highnesses the Maharajas of Jodhpur and Bikaner, as to the management, maintenance and working, by the Administration of the Jodhpur-Bikaner railway, of the Mirpur Khas-Jhudo railway.

Main provisions of agreement and contracts-

- (i) Land .- Provided by the Government at the cost of capital.
- (ii) Government aid.—The line is the property of the Government, who provide all expenditure for capital, and is managed, maintained, stocked and worked by the Administration of the Jodhpur-Bikaner railway as part of that system.
- (iii) Terms of working.—The working expenses of the amalgamated undertaking, excluding the cost of maintenance (but including rent of joint works and interest at \$\frac{1}{2}\$ per cent on funds provided for the purchase of stores required for the maintenance and working of the combined undertakings are divided, in the ratio of the gross earnings of each, between the British and Native State sections. Maintenance charges are the actual expenditure on each section for direct charges; and for joint charges such as the salary, allowances and other expenses of the Chief Engineer, the proportion due in the ratio of the gross earnings. In addition to the working expenses mentioned above, the Government pay to the Jodhpur and Bikaner Durbars in each half-year for the provision of rolling-stock a sum equal to 5 per cent of the share of the cost of the whole of the joint-stock of the system which is attributable to the Jodhpur-Hyderabad railway—the book value of the steck being divided between the several sections of the system in proportion to the gross earnings of each for the period, for the purpose of determining the amount on which the percentage shall be made. The charge for the stock which cannot be considered as joint (i.e., the stock which does not ply on each section nor is profit earning) shall be 5 per cent on the cost divided between the sections using it in proportion to the mileage on which it runs on each section.

Jodhpur-Hyderabad railway (British section) (8' 3%" gauge) -- concld.

Main provisions of agreement and contracts-coacld.

- (iv) Distribution of profits. After payment of the working expenses indicated under (iii), the balance of the gross earnings, if any, is paid to the British Government.
- (v) Rates and fares.—Certain maxima and minima have been fixed, between the limits of which the Railway Administration can vary the rates and fares quoted for goods and coaching traffic.
- (vi) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Covernment officials and Gov- To be conveyed on the same conditions and at the same rates as may be in force from time to time on other railways of the ernment stores. same gauge belonging to the Government of India.
 - (b) Government bullion and coin. and the persons in charge there-
- (vii) Power of the Government to determine agreement .-) The agreement is terminable, only on the 1st
- April or the 1st October in any year, on >12 months' notice given by either party to (viii) Power of the Durbars to surrender agreement.the other.
- (ix) Term of agreement .-

Statistics of working (Those for the periods prior to 1902 will be found in Appendix 38 to the Railway Administration Report for 1907.)

Year.	Mileage open at end of each year.	(i) lines open and (ii) lines partly or	Gross earnings.	Net earnings.	Percentage of net carnings on total capital outlay given in column (3).	Interest,	Clain or loss to the State pertaining to each year.	Earnings per mile per week.	Proportion of expenses to carnings.
1	2	8	4 1	5	6	. 7	8	9	10
	Miles.	Rs.	Rs.	Rs.	1	Rn.	Rs.	Rs.	
1902	123.98	40,45,972	5,04,008	2,18,814	5'41	1,59,771	+ 59,013	78	50.50
1903	123.98	40,45,338	5,84,094	2,62,379	6 49	1,60,179	+1,02,200	91	55'08
1904	123.98	39,58,081	6,48,728	8,45,007	8.72	1,54,616	+1,90,161	101	46.82
1905	123 98	39,67,948	7,23,989	3,69,002	9 30	1.58,622	+2,10,380	112	49.08
1906	123.98	40,70,635	8.91.456	5,11,938	12.58	1,57,778	+8,54,160	138	42'57
1906	100.00	40,23,073	8,05,017	3,57,918	8.90	1,21,968	+ 2,85,950	125	55'54
1908	123-98	12,81,148	7,59,479	3,34,028	7.80	1,49,807	+1,84,221	118	56.03
1909	123.98	42,93,099	8,19,444	8,69,834	6.58	1,41,400	+1,28,484	127	67:10
1916 .	123.98	42,32,763	9,00,091	3,80,517	8.99	1,42,724	+ 2,87,793	140	57.72
			±212,02,852	6,94,934	16'54	1,42,970	+5,51,964	187	42.23
1911	123.98	42,01,757	13,58,633	6,84,232	16.21	1,46,742	+ 5,37,490	210	49-45
1912	123.98	42,19,491	19,00,000	0,03,502	10 00	1,50,100	10,01,100	2.0	30 40
lat qr.	123.98	42,42,650	3,23,858	1,99,608	4.70	40,484	+ 1.59.124	201	38.37
of 1913 .		43,71,962	18,02,806	6,30,706	14.43	1.45 927	+ 4.84.779	202	51.59
1918-14 .	123.98 123.98	44,21,306	9,81,884	3,64,426	821	1,53,847	+ 2,10,579	152	62.88
1914-15	123 98	44,45,252	12,72,371	5,98,124	18:46	1.53,946	+4,44,178	197	59.99
1915-16 . 1916-17 .	123.98	44,66,489	14,26,998	6,60,256	14.78	1.46 882	+5,13,374	221	58.73
	123 98	45,17,708	20,08,227	11,18,516		1,56,010	+ 9,62,500	311	44-80
1917-18 .	123.98	30,17,700	20,00,221	11,10,010	, 2110	1.00,010	. 5,52,100	, 0	

Mirpur Khas-Jhudo railway (3' 3% gauge) -

Date of registration of the Company .- 14th February 1908.

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total-	
1	2	3	4	
Jamrao Junction to Jhudo	18-4-09	50:43	5043	

Details of construction-

Permanent-way. - The permanent-way consists of about \$3 miles of \$6.15, and about 17 miles of 411-lb. flat-footed steel rails laid on deodar sleepers.

Ballast .- The line is not ballasted.

Fencing.—The line is unfenced. Curves.—The sharpest curve is of 1,206 feet radius.

Gradients .- The ruling gradient is 1 in 150.

Mirrour Khas-Jhudo railway (3' 3\" gauge)-contd.

Agreement and contracts-

Agreement, dated the 22nd December 1900, between the Government of India and His Highness the Maharaja of Jodhpur and the Council of Regency, Bikaner, as to the construction (at the coef of the Jodhpur Durbar and of the Government of India for the portions in their respective territories) of a railway from Balotra to Hyderabal, and for the management, maintenance and working thereof by the Jodhpur-Bikaner Railway Administration, as modified by—

Letter from the Government of India in the Public Works Department, to the Agent to the Governor General for Rajputana, No. 255 R.T., dated the 6th March 1900, and the reply thereto; Letter from the Railway Board to the Agent to the Governor General for Rajputana, No. 1537

R.T., dated the 20th August 1908; and

Letter from the Railmay Board to the Agent to the Governor General for Rajputana, No. 2197 R.S., dated the 26th October 1908, and the reply thereto.

Contract, dated the 13th July 1911, between the Secretary of State and the Sind Light Railways, Limited, as to the construction, management, maintenance and working, by the Administration of the Jodhpur-Bikaner railway (or any State, or other agency) of the Mirpur Khas-Jhudo railway:

Contract. dated the 16th September 1912, between the Secretary of State and Their Highnesses the Maharajas of Jodhpur and Bikauer, as to the management, maintenance and working, by the Administration of the Jodhpur-Bikaner railway, of the Mirpur Khas-Jhudo railway.

Contract, dated the 9th June 1913, between the Secretary of State and the Sind Light Railways, Limited, as to the construction of the Mirpur Khas-Khadro railway and its maintenance, management and working as a part of the Mirpur Khas-Jhudo railway.

Contract, dated the 5th December 1913, between the Secretary of State and Their Highnesses the Maharajas of Jodhyne and Bikaner, as to the maintenance, management and working, by the agency of the Jodhyne-Bikaner Railway Administration, of the Mirpur Khas-Khadro railway as an integral part of the Mirpur Khas-Jhudo railway.

Contract dated the 22nd August 1916, between the Secretary of State of the 1st part, Sind Light Railways, Limited of the 2nd part, His Highness the Maharaja of Jodhpur of the 3rd part and His Highness the Maharaja of Bikaner of the 4th part, as to the adoption of financial year and half wear as from 1st April 1913.

Main provisions of agreement and contracts.-

- (i) Land.—Provided by the Government free of cost to the Company, except that the bank constructed by the Jamrao Canal Department, parallel to and alongside the Jamrao Canal, upon which the railway runs for a distance of about 16 miles, remains the property of the Canal Department, subject to the right of the Company to have the said railway running thereon and other provisions relating to the canal and bridges thereover, etc.
- (ii) Government aid.—The railway is the property of the Sind Light Railways, Limited, at whose cost it was constructed by the Administration of the Jodhpur-Bikaner railway, who manage, maintain, stock and work it, under agreement with the Government, in conjunction with and as part of the British section of the Jodhpur-Hyderabad railway.
- (iii) Terms of working.— As between the Government and the Sind Light Railways, Limited, (iv) Distribution of profits.— I the Government undertake the management, maintenance, provision of rolling-stock and working, through State, or other, agency (that at present employed being the Administration of the Jodhpur-Bikaner railway), for 40 per cent of the gross earnings of the Mirpur Khas-Jhudo railway; the remainder, being the net earnings of the branch, is paid by the working agency to the Company.

As between the Government and the Administration of the Jodhpur-Bikaner railway, the Company's line is managed, maintained, stocked and worked by the Jodhpur-Bikaner Railway Administration in conjunction with, and as if it had originally been a part of, the British section of the Jodhpur-Hyderabad railway, and were subject to the provisions of the agreement of the 22nd December 1900 so far as they are not inconsistent with the contract of 1911 between the Government and the Company; provided that the difference (if any) between the following sums, viz:—

(a) the proportion (viz., 60 per cent) of the gross earnings of the Mirpur Khas-Jhudo railway

(a) the proportion (ne., 60 per cent) of the gross earnings of the Mirpur Khas-Jhudo railway in each half-year payable, under the combined effect of the contracts of 13th July 1911

and 16th September 1912, by the working agency to the Company, and

(b) the sum which would have been payable to the Government as the excess of the gross earnings, over working expenses, of the Mirpur Khas-Jhudo railway in terms of the agreement of the 22nd December 1900, if that railway had been originally subject thereta as part of the British section of the Jodhpur-Hyderabad railway and if the gross earnings thereof, ascertained by separate accounts had been treated as separate from those of the other portion of the Jodhpur-Hyderabad railway so as to bear its own share of working expenses under that agreement in the same half-year, adjusted by payment of such difference by the Government to the Jodhpur-Bikaner Railway Administration or vice versa, as the case may be, according as the sum payable by the Railway Administration to the Company is greater or less than that which would have been payable by the Railway Administration to the Government as stated under (b) above.

Mirpur Khas-Jhudo railway (3' 33" gauge)-concld.

Main provisions of agreement and contracts-concld.

- (v) Rates and fares .--
- (vi) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Government officials and As noted under Jodhpur Hydera-Government stores. bad railway (British section) (3' 3 gauge).
 - (i) Government bullion and coin, and the persons in charge thereof.
- (vii) Power of the Government to determine contract.—Government may determine the contract by "Notice of purchase" either on the 31st December 1928, or on the 31st December in the last year in any subsequent period of ten years, on giving twelve months' notice.
 - On the termination of the contract Government takes possession of the railway and all its appurtenances on the payment to the Company of a sum equal to 25 times the amount of the average net earnings of the railway during the three years immediately preceding the date of that event provided that such sum shall not exceed by more than 20 per cent, nor be less than, the total capital expenditure.
- (viii) Power of the Company to surrender contract-Nil.
- (ix) Term of contract. Until determined under (vii).

Statistics of working-

Year,	Mileage open at end of each year.	Total ospital outlay, including suspense, to end of each year,, outlay on (i) lines open and (ii) lines partly or wholly under construction,	Gross earnings,	Net carnings.	Percentage of net earnings on total capital ontlay given in column (3).	Earnings per mile per week.	Propertion of expenses to earnings,
1	2	3	4	5	в	7	8
1000	Miles.	Rs.	Rs.	Rs.		Rs.	
1909	50.43	7,3 7,231	43,585	26,121	8.24	25	40.00
1910	50.13	7,20,900	98,463	99,078	8.20	88	40.00
1911	50.43	7,20,329	96,228	57,787	8.03	87	40 0€
1912	50.43	7,22,627	1,16,670	70,002	9.69	44	40.00
1st qr. of 1913	50 43	7,22,771	48,383	29,030	4.08	74	49.00
1913-14	50.48	7,24,396	1,40,184	84,110	11.61	53	40.00
1914-15	50-13	7,24,396	1,31,013	30,408	11.10	51	40.00
1915-16	50.43	7.24,396	1,26,507	75,901	10.48	48	40.00
1916-17	50.13	7,31,806	1,36,695	82,017	11:21	52	40:00
1917-18	50'48	7,31,806	1,74,208	1,04,525	14.28	66	40.66

Mirpur Khas-Khadro railway (3' 33" gauge)-

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
	2		
Mirpur Khas to Khadro	1-1-12	49.50	49.20

Details of construction-

Permanent-way. - The line is laid with 60-lb, iron rails for 9 miles and 36-lb, flat-footed steel rails for 40 miles. The sleepers used are deodar throughout.

Ballast .- The line is not ballasted.

Fencing .- The line is unfenced.

Curves .- The sharpest curve is of 995 feet radius.

Gradients .- The ruling gradient is 1 in 200.

Dated the 9th June 1913, between the Secretary of State and the Sind Light Railways, Limited, as to the construction of the Mirpur Khas-Khadro railway and its maintenance, management and working as a part of the Mirpur Khas-Jhudo railway.

Dated the 5th December 1913, between the Secretary of State and Their Highnesses the Maharajas of Jodhpur and Bikaner, as to the maintenance, management and working, by the agency of the Jodhpur-Bikaner Railway Administration, of the Mirpur' Khas-Khadro railway as an integral part of the Mirpur Khas-Jhudo railway.

Main provisions of contracts-

The same as noted under Mirpur Khas-Jhudo railway (3' 3%" gauge) except as follows :-

Power of the Government to determine contract .- Government may determine the contract by 'Notice of purchase' either on the 31st December in the twenty-first year after the opening of the line for traffic, or on the 31st December in the last year of any subsequent period of 10 years, paying

Mirpur Khas-Khadro railway (3' 3\f") -concld.

Main provisions of contracts-concld.

to the Company 25 times the amount of the average yearly net carnings of the railway during the 3 years immediately preceding the purchase, provided that such sum shall not exceed by more than 20 per cent, nor be less than, the total capital expenditure.

Government may also determine the contract and purchase the railway in the following events:—

(a) If it is considered desirable that the gauge of the railway should be altered;

(b) If it is considered desirable to convot the railway into a line of through communication; and

(c) If it is considered desirable to extend the line (without altering the gauge or making the railway)

part of a through route) and the Company is unable or unwilling to supply the necessary capital for the purpose;

on payment to the company 25 times the average net earnings during the 3 years preceding the purchase or 115 per cent of the capital expenditure whichever shall be the greater, but if the purchase occurs within less than 3 years from the opening of the line the price shall be 115 per cent of the capital expenditure.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to ond of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.		Net carnings.	Percentage of net carnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1 .	2	3	4	5	6	7	8
1912 1st qr. of 1918 1918-14. 1914-15. 1916-16. 1916-17. 1917-18	Miles. 49:50 49:50 49:50 49:50 49:50 49:50 49:50	Ra. 8,24,749 8,22,116 8,22,222 8,23,006 8,23,006 8,23,096	Rs. 69,432 26,941 83,334 69,806 70,237 85,332 94,547	168, 36,259 16,165 50,000 41,884 42,142 51,182 56,728	4:40 1:97 6:08 5:09 5:12 6:22 6:89	Rs. 28 42 32 27 27 27 88 87	40°00 40°00 40°00 40°00 40°00 40°00

Pipar-Bilara Light railway (2' 0" gauge)-

The line was constructed originally as a steam tramway, to which the provisions of the Indian Railways Act were applied on the 6th July 1912.

Sec	tion	s of	railw	ау.							Date of opening.	Miles.	Total.
			ı		_		 				2	3	4
Pipar Road to Bhavi											25-11-10	19:00	
Bhavi to Bilara											1-3-12	6.32]
							Тот	A L	٠	•			25.25

Details of construction-

Permanent-way. - The permanent-way consists of 21-lb, steel rails on decodar sleepers.

Ballast .- The line is ballasted with earth.

Fencing.—The line is not fenced.

Curves.—The radius of the sharpest curve is 478 feet.

Gradients.-The ruling gradient is 1 in 600-except in the sections from mile 6:38 to mile 6:76 and from mile 7 to mile 7.53, where the gradient is 1 in 100 in cuttings.

Agreement-

Nil.—The line was constructed and is owned by the Jodhpur Durbar by whom it was worked up to the 3rd Rebruary 1913. From the 4th February 1913, the working was taken over by the Jodhpur-Bikaner Railway Administration.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net oarnings.	Percontage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	+	5	6	7	8
1910 1911 1913 1st qr. of 1913 1918-14 1914-15 1915-16 1916-17	Miles. 19:00 19:00 25:00 25:00 25:25 25:25 25:25 25:25 25:25	Re. 1,95,767 2,51,555 2,74,857 2,74,986 2,76,987 2,99,887 2,90,305 2,90,147	ks. 1,732 15,996 28,986 5,862 26,156 25,187 23,679 25,586 20,087	Rs. 682 5,246 5,509 2,159 1,328 0,402 12,472 6,832 6,216	0.82 208 2.00 0.79 0.48 3.36 4.30 1.67	Re. 17 16 18 18 20 19 26	63-51 67-20 76-08 63-18 94-94 63-67 62-96 81-08 79-01

JUNAGAD STATE RAILWAY (8' 31" gauge).

This line was constructed by Government agency for the Native State of Junagad (after which it is named). It was, up to the 31st March 1911, worked by an Administrative Coalition of the States of Bhavnagar, Gondal, Junagad and Porbandar, which was formed for the purpose of working, as one undertaking, the railways which, prior to that date, were comprised in the Bhavnagar-Gondal-Junagad-Porbandar railway. The Coalition ceased to exist on the 1st April 1911, on and from which date the line is being worked independently as a separate and distinct railway.

Progress in opening-

Sections of railway.			Date of opening.	Miles.	Total.	Grand total.
1			2	3	4	5
Main line-		-				
Jetalsar to Junagad			1-9-88	16:00		
Junagad to Veraval Docks		.]	1-2-89	51:30		
Branches-		-	_		67:30	
Saradiya branch—		l	i	ł		
Shapur to Manavadar			15-2-10	15.86		
Manavadar to Bantva			25-12-10	3.45		
Bantva to Saradiya			15-5-15	7 00		
Visavadar branch—		1			26.31	
Junagad to Bilkha			20-5-12	13.64		
Bilkha to Visavadar			15-2-13	12.92		
Dungarpur quarry line			10-12-12	0.73	26°56	
Zungaspur quang tine i			10-12-13		0.73	
TOTAL OPEN MILE	A G E					120-90
Under construction of banctioned for construction—	R	ŀ		-		
Veraval to Una (sanctioned on 16th June 19	15).			56 91	56 91	56.91
GRAND TOTAL						177:81

Details of construction --

Permanent-way.—The permanent-way consists of 411-lb. flat-footed steel rails on crossoted pine, deodar and jodka teak sleepers. A length of 292 miles, Jetalsar to Lushala, of the main line, except in station yards, has been relaid with 50 lb. rails.

yards, has been relaid with 50 lb. rails.

Ballast.—The main line, Jetalsar to Veraval, is ballasted with stone. The Junagad-Visavadar and Shapur-Saradiya branches are ballasted with moorum on banks and stone in cuttings.

Fencing.—The line is practically unfenced.

Curves.—The sharpest curve is of 1,200 feet radius.

Gradients.—The ruling gradient is 1 in 100 which occurs on the approaches to the Oojat River on the main line, and also on the approach to Sorath Vanthali station on the Saradiya branch.

Agreement-

Nil .- The line is owned and worked by the State of Junagad.

Statistics of working-

Year.	Mileage open at end of each year. (ii) lines open an (iii) lines partly or		outlay, including spense, to end of each year, i.e., outlay on i) lines open and) lines partly or wholly under construction.		Percentage of net carnings on total capital outlay given in column (3).	Earnings per mile per week,	Proportion of expenses to earnings.
1	2	. 3	. 4	5	в	7	8
1911	Miles. 88.98 100.50	Rs. 49,05,266 55,92,589	Ra. 4,45,926 5,38,085	Rs. 2,06,461 2,65,510	4·30 4·75	Ra. 96 102	58*70 50*19
1st qr. of 1913	119-42	57,19,741	1,62,434	84,436	1.48	110	48.02
1913-14	113·42 113·90 120·90 120·90 120·90	60,44,328 62,46,334 64,08,751 66,60,644 73,58,863	6,18,701 6,21,293 6,96,853 7,49,201 8,14,345	2,97,380 2,92,418 8,40,108 3,68,837 1,74,236	4·92 4·68 5 83 5·54 2·87	105 105 111 119 129	51:93 52:98 51:16 50:77 78:60

MORVI RAILWAY (3' 31" and 2' 6" gauges).

The whole line was originally on the 2' 6" gauge. In 1905 the length between Wadhwan and Rajkot was converted to the 3' 3\bar{\text{s}}" gauge—from Wadhwan to Than Road, 31'34 miles, on a new alignment and onwards to Rajkot, 42'60 miles, on the original alignment with a few unimportant diversions. The line between Vankaner and Morvi was retained on the 2' 6" gauge.

Progress in opening-

Sections of railway.		Date of opening.	Milea,	Total.	Grand total.
1		2	8	4	5
S' 34" gauge		4-3-05	78.94	78 ·94	
2' 6" gauge-					
Vankauer to Morvi		. 24-3-87	15.70		
Quarry branch		23-12-05	3-19	10:00	
				18:89	1
	Total				92.88

Details of construction-

Permanent-way.—The permanent-way on the 3' 3\bar{g}" gauge section consists of 41\bar{1}-lb. flat-footed steel rails on half-round teak-sleepers; and that on the 2' 6" gauge section of 29-lb. flat-footed steel rails on steel trough and crossoted pine sleepers.

Ballast.-The line is ballasted with moorum (disintegrated trap).

Fencing .- The line is unfenced.

Curnes.—The sharpest curve on the 3' 3\frac{3}{3}" gauge is of 950 feet radius; and that on the 2' 6" gauge is of 500 feet radius.

Gradients.—The ruling gradient of the greater part of the railway is about 1 in 200 with a 1 in 150 banking section.

Contract-

Nil.—The line was constructed by His Highness the Thakore Sahib of Morvi, at his own expense, and is maintained and worked by him.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907).—

Year.			Mileage open at end of each year.	Total capital ontlay, including susponse, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross sarnings.	Net sarnings.	Percentage of net earn- ings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1			2	. 3	4	5	6	7	8
			Miles.	Re.	Rs.	Rs.		Rs.	
1908 1909 1910		:	92:83 92:83 92:83	46,42,725 47,95,497 49,91,020	5,08,262 4,71,830 5,29,105	2,82,464 2,12,900 2,96,286	6.08 4.44 5.94	105 98 109	45·43 54·8s 44·00
1911 1912	•	:	92.83 92.83	49,91,296 51,21,785	6,36,082 7,24,917	4,32,520 4,54,877	8·47 8·87	132 150	33*57 37·32
lut qr. of 1	918		92.83	51,14,001	1,90,819	1,40,141	2.74	158	26.57
1918-14 1914-15 1915-16 1916-17 1917-18	: :	•	92·83 92·83 92·83 92·83 92·83	52,11,167 52,83,719 53,80,469 53,60,305 53,76,828	7,76,902 7,66,981 7,73,044 8,68,811 9,76,455	5,08,049 4,86,346 4,92,318 6,23,172 7,14,137	9·65 9·24 9·15 11·63 13·28	161 159 160 180 202	35:25 36:59 36:31 28:26 26:86

MYSORE-ARSIKERE RAILWAY (3' 31" gauge).

The construction of this line by the Mysore Durbar was sanctioned by the Government of India in the Foreign Department, in their letter No. 3474-1.B., dated the 29th October 1918.

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
1	2	8	4
Mysore to Arsikere	3-1-18	108-95	102-95

Details of construction -

Permanent-way.—The permanent-way consists of 50-lb., with a small percentage of 33 and 30-lb., flat footed steel rails, B. S. section, laid mostly on Mysore teak sleepers.

Ballast.—The ballast consists of either stone, gravel or sand. Approaches to bridges and most of the cuttings are ballasted with stone and the banks with good gravel or moorum.

Fencing .- The line is unfenced except at important stations and level crossings.

Curves. - The sharpest curve is of 573 feet radius.

Gradients .- 1 in 95 compensated.

Agreement-

Nil.-The line is owned and worked by the Mysore Government.

Statistics of working -

Year.	Mileage open at end of the year.	Total capital outlay, including suspense to ond of the year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week,	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8
1917-18	Milos. 102'95	Вн. 81,11,60 5	Rs. 65,817	R ₆ , 6,582	0.08	Rs. 52	90*00

DKHAMANDAL RAILWAY (3' 3\frac{3}{2}" gauge).

Sanction to the construction of this line by the Baroda Durbar was conveyed in Railway Board's Notification No. 156, dated the 5th June 1913. Work has been stopped on this line for the present pending certain further orders of the Government of India.

Progress in opening-

Section of railway.	Section of railway.								
, 1		3	` 8	4					
Kuranga to Arthura (sanctioned on 5th June 1913) .	· · · · · ·	. 	87:02	87-02					

Chairman. -- Alexander Izat, Esq., C.I.E.

Secretary .- E. A. Neville, Esq.

Office. - 237, Gresham House, Old Broad Street, London, E.C.

Date of registration of the Company .- 6th October 1882.

Lines comprised in the system.—The Robilkund and Kumaon railway system is made up of-

												M	iles.
(a) Rohilkund and Kumaon railway (3' 3#" ga	uge)	٠.١										25	8.72
(b) Lucknow-Bareilly railway (3' 3\" gauge)												31	2.43
(c) Powayan Light railway (2' 6" gauge)		•	•		•					•	•	38	.86
unning powers—									То	tal		61	0.01
Home line over foreign line:-													
Over Ramganga bridge, between Bareilly and Bas railway. Over Ramganga bridge, between Dalpatpur and Me railway.								•	for and trai	ра в пв.	songer goode	{	0·52
Foreign line over home line:-												_	0.92
Bengal and North-Western railway, Daligani to A	ishba	gh, fo	or par	венд	er az	ıd go	ods t	raim					3:40

Rohilkund and Kumaou railway (3' 33" gauge)-

Progress in opening-

R

·	Sections of railway.											Miles.	Total.	Grand total	
Andrew Control of the			1								2	3	4	5	
Main line-															
Bhojeepura to Kathgodam											12-10-84	53:92	I i		
Extensions-											ĺ	ļ	53-92		
Kasganj extension— Barcilly to Soron Soron to Kasganj	:	:	:	:	:	:	:	:	:	:	29-1-06 4-1-85	54·95 9·00			
Ramnagar extension-													63.95		
Moradabad to Got Got to Kashipur Kashipur to Kamnagar			:	:	:	:	:	:	:	:	10-5-08 11-1-08 1-4-07	4·19 26·86 17·14			
Kashipur extension-	•	·		•	•	•		•	•	•	1-9-07	17 19	48-10		
Lalkon to Kashipur											15-12-07	36:00			
Shahjahanpur extension													36.00		
Pilibhit to Bisalpur Bisalpur to Carewganj	:	·	·	·	:	:	:	:	:	:	24-2-11 18-1-12	23·14 31·12			
Shahbaznagar to Shahjah	npu	r.	٠	,	•	•	٠	•	٠	-	18-3-16	2.40	56.66		
			GRA	N D T	OTA1,		,				***		30 66	258-72	

Details of construction-

Permanent-way.—The permanent-way consists of 41½ and 50-lb. steel rails on sâl, Australian and deodar sleepers. The lines from Lalkua to Ramnagar, Moradabad to Kashipur and Pilibhit to Carewganj are laid with 41½-lb. steel rails on sâl and deodar sleepers.

Ballast .- The ballast consists of broken brick and shingle.

Fencing .- The line is partially fenced.

Curves .- There are no curves with a radius of less than 716 feet.

Gradients.—The ruling gradient between Bhojeepura and Kathgodam is 1 in 280, except near the hill where it is 1 in 70; between Bareilly and Kasganj, 1 in 400; between Moradabad and Ramnagar, 1 in 400, except near the hills where it is 1 in 125; between Lalkua and Kashipur, 1 in 200, except for a short distance near Lalkua where it is 1 in 100; and between Pilibhit and Carewganj, 1 in 400.

Contracts

Dated the 12th October 1882 (called the original contract), between the Secretary of State and the Robiltund and Kumaon Railway Company, as to the construction, maintenance, management and working of the railway from Bhojeepura to Kathgodam.

Bohilkund and Kumaon railway (3' 33" gauge)-contd.

Contracts-concid.

- Dated the 8th September 1890 (called the principal contract), between the Secretary of State and the Robitkund and Kumaon Ruiteau Company, as to the working of the Company's line and the construction, maintenance, management and working of certain State lines.
- Dated the 31st December 1892 (supplemental to the contract of 1890 and called the capital advance contract), between the Secretary of State and the Robilland and Kumaon Ruilway Company, for the advance of capital for the State line and as to debentures.
- Dated the 5th February 1901 (supplemental to the contracts of 1882, 1890 and 1892), between the Secretary of State and the Robithand and Kumaon Railway Company, prolonging and continuing the contract of 1890, subject to certain modifications thereof and of the contracts of 1882 and 1892.
- Dated the 24th April 1903 (supplemental to the contracts of 1882 and 1890), between the Secretary of State and the Robilkund and Kumaon Railway Company, as to the adoption of la. 4d. per rupes as the "prescribed" rate of exchange.
- Dated the 15th July 1904 (supplemental to the contracts of 1882, 1890, 1901 and 1903), between the Secretary of State and the Robilkand and Kumaan Railway Company, as to the construction, maintenance, management and working of certain Branch railways and the purchase of existing Branch lines.
- Dated the 18th July 1906, between the Secretary of State and the Robitkund and Kumaon Railway Company, as to the provision of moneys for capital expenditure on the Powayan Steam Tramway, and the acquisition by the Company of interests in that Tramway, and other matters.
- Dated the 24th March 1909 (supplemental to, and in modification of, the contracts of 1882, 1890, 1892, 1901, 1903, 1904 and 1906), between the Secretary of State and the Robitkand and Kumaon Railway Company, as to the raising of capital for the purposes both of the Company's lines and of the Lucknow-Bareilly railway, and for the construction, maintenance, management and working of the Pilibhit-Barmdeo railway, extensions of the Dudhwa branch with a permanent bridge over the Sarda river, and the Pilibhit-Shahjahanpur railway.
- Dated the 3rd July 1914 (supplemental to the contracts of 1882, 1890, 1892, 1901, 1903, 1904, 1906 and 1909), between the Secretary of State and the Robitkund and Kumaou Railway Company, as to the adoption of the Government financial year for the preparation of the accounts.

Main provisions of contracts -

- (i) Land.—Land for the Company's railway constructed in pursuance of the original contract was provided by the Government free of cost to the Company, subject to the condition that the Company pays, on demand, to Government the cost price of land purchased by Government for the purposes of the Company's railway. Land for the railway from Gola Gokaran Nath to Pilibhit, and for all the other State lines provided by the Government after the 1st January 1891 is charged to capital subsequent to the date of the principal contract. Land for Branch railways and Branch line works is provided free, except and excluding land required for quarrying ballast, brickfields or kindred purposes.
- (ii) Government aid.—Government guaranteed interest at 4 per cent per annum in sterling on the capital up to £200,000 expended on the Company's original railway until its opening throughout for public traffic but for no longer than and including 1st January 1885; thereafter a subsidy of Rs. 20,000 half-yearly for ten years from the date of opening, which ceased on the 31st December 1894.
 - In the case of the Lucknow Barcilly railway the Government guarantee the principal and interest in respect of debentures for the nominal amount of £147,000 issued by the Company in order to raise the sum of £160,000 (the sum actually realised being £160,887).
 - [Norm.—Of these, debentares for £40,000 and £32,000 acre paid off from advances by the Secretary of State in England on 1st July 1911, respectively].
 - The Company reimburses the Government any amount by which the interest payable under the guarantee may exceed Rs. 96,000 in any one year.
 - All sums advanced by the Government after the 31st December 1900 bear interest at the rate of 31 per cent per annum.
- (iii) Terms of working.—The Lucknow Bareilly railway is worked in conjunction with the Company's own line, a joint account of working expenses being kept. includes-
 - (1) any item of capital expenditure not exceeding Rs. 1,000 classed as "minor work" subject to a maximum charge on such account of Rs. 15 per mile of railway open per half-year, and
 - (2) a payment to Government of Rs. 20 per mile of railway open to traffic per half-year for audit and supervision.

- The joint working expenses of the open system are divided between—

 (a) the Company's original line and "the Additional Main Line Works,"

 (b) the Lucknow-Bareilly railway and "the State Line Works," and

 (c) "the Branch Railways" and "the Branch Line Works,"

Rohilkund and Kumaon railway (3' 3%" gauge)-contd.

Main provisions of contracts-coald.

in proportion to the respective gross earnings or those three classes.

- (iv) Distribution of profits.—The earnings of the Company's original line and "the Additional Main Line Works," after payment of all working expenses, are applied in the following order:—
 - (a) in payment of contribution to Provident Fund contingent on net earnings,
 - (b) in payment of interest on the Company's Main Line Stock (being part of the Joint Debenture Stock),
 - (c) in payment of interest on borrowed capital, and
 - (d) in payment of interest at 6 per cent per annum on the bond file paid-up share capital of the Company.

The surplus is divided equally between the Government and the Company.

The net carnings of "the Branch Railways" and of "the Branch Line Works" belong absolutely to the Company, without any right of the Secretary of State to participate therein, subject only to the payment thereout of contribution to Provident Fund contingent on net carnings and interest on the Company's Branch Line Stock (being part of the Joint Debenture Stock).

The net earnings of the Lucknow-Bareilly railway and "the State Works", i.e., of the undertaking, are applied in the following order:—

- (a) in payment of contribution to Provident Fund contingent on net earnings,
- (b) in payment of the interest at 4 per cent per annum on the State Stock (being part of the Joint Debenture Stock), except interest on such portion of the State Stock as may for the time being be appropriated for lines under construction, which latter is churged to capital till the close of the half-year next after the opening of lines to traffic,
- (c) in payment of the interest on the debentures of £417,000 issued by the Company in 1890 and of interest at 4 per cent per annum on any further capital supplied by the Company or advanced by the Government for the purposes of the undertaking (3\frac{1}{2}) per cent per annum on Government advances subsequent to the 31st December 1900),
- (d) in payment to the Government of interest at 4 per cent per annum on the value at cost price of the railways, rolling-stock, plant, machinery and land handed over to or retained by the Company on the 1st January 1891 (standing to debit of Part I of the Capital Account), and
- (e) the residue is divided between the Government and the Company in the ratio of their respective shares of capital in the undertaking.

[Note 1.—The State Stock (part of Joint Debenture Stock), excluding and except so much of it as is appropriated for the construction of the Pillbhit-Barmdop railway, does not participate in profits either as Government capital or as Company's capital.

[Note 2.—The amount advanced by the Secretary of State to pay off d-bondards for \$272.00) (part of \$2147.00) wide (ii) above and note in connection therewith) does not affect the capital of either the Secretary of State or the Company for the purposes of division of surplus profits of the Lucknow-Barcilly railway.]

Goods :-

(v) Rates and fares .-

Maxima :---

Company's lines :--

Passengers :--

•

1st class, 3 annas per mile. Lower class, 41 pies per mile.

Luggage, 2 pies per maund per mile.

Edible grains, ård pie per maund per mile. Other goods, 2 pies per maund per mile.

Parcels and live-stock at rates not exceeding 50 per cent over rates on the East Indian railway.

On the Branch railways food grains and salt are to be carried at rates, not less than the minimum for goods, as the Government may fix; and fuel for distances exceeding 100 miles on the Branch railways, or on any part thereof together with any part of the other railways belonging to or worked by the Company at a rate not exceeding the pie per maund per mile.

Lucknow-Bareilly railway and branches :-

The Government to authorise, from time to time, maximum and minimum rates, and to prescribe the classification of passengers and goods, as well as the extent to which, within the maxima and minima, the Company may vary such rates.

For traffic between the joint line (Bareilly-Bhojeepura) and the Company's own line, the rates in force on the latter may be levied, except in the case of food grains and salt, and of fuel carried

Rohilkund and Kumaon railway (3' 88" gauge) -contd.

Main provisions of contracts - confd.

for distances exceeding 100 miles; for the former the rates will not be less than the minimum for goods fixed by Government, and for the latter the rates will not exceed the pie per maund per mile.

- (vi) Special obligations as to the conveyance of .-
 - (a) Mails.—On the Company's original line, to be conveyed on payment of Rs. 5,000 half-yearly. On the extensions of the Company's original line (Additional Main Line Works), the Company is to receive a reasonable remuneration in lieu of the sum of Rs. 5,000 above noted.
 - On the Lucknow-Bareilly railway and branches, on the same general conditions as are for the time being in force on other 3' 3\\$" gauge State railways, and at rates to be approved by the Government.
 - (b) Troops, police, high Government officials and Government stores .-
 - On the Company's lines, at the ordinary tariff rates charged to the public.
 - On the Lucknow-Bareilly railway and branches, on the same general conditions as are for the time being in force on other 3' 3\sqrt{"} gauge State railways, and at rates to be approved by the Government.
 - (c) Government bullion and coin, and the persons in charge thereof .-
 - On the Company's lines at special rates to be from time to time agreed upon between the Government and the Company.
 - On the Lucknow-Bareilly railway and branches, at special rates to be approved by the Government.
- (vii) Power of the Government to determine contract .-
 - Contract of 1882: The Government may terminate the contract at the end of the 50th year, i.e., on the 31st December 1932, by giving 12 months' notice. If the contract terminate by such notice, or by the efflux of time, the Government are to pay to the Company 25 times the average net carnings, less the Government share of surplus profits, during the 5 years immediately preceding either the date of the termination or (at the option of the Government) the 31st December 1912.
 - [Note.—The cost of making good any shortcomings which render the value of the line not commensurate with the capital expended may be deducted from the purchase price payable.]
 - The Government may also determine the contract at any time on 6 months' notice (called the "Notice of Determination") if the Company fail to observe its obligations, on payment of the value of the permanent-way, stock and plant, or may call upon the Company to accept the same in lieu of payment, in which latter ease the Company must remove its property within 9 months from the termination of the contract, otherwise it becomes the property of the Government.
 - Contract of 1890: If the original contract with the Company, dated the 12th October 1882, terminate for any reason, then the contract for the working of the Lucknow-Bareilly railway ipso facto terminates at the same time. The Government may terminate the contract on the 31st December 1932, or on the 31st December in any subsequent year, by giving 12 months' notice. The Government may also determine the contract on 6 months' notice (called the "Notice of Determination") if the Company fail to observe its obligations.
 - On the determination of the contract the Government will resume possession of the State railway, and at their option will either repay the capital that has been received from the Company for the purposes of the undertaking, or will take over the liability of the Company in respect of such capital. If the capital is repaid, the payment may, at the option of the Government, be made either in England or in India.
 - Contract of 1904: If the original contract with the Company, dated the 12th October 1882, terminate either by "Notice of Purchase" or by the efflux of time, then the contract of 1904 terminates at the same time, in which case the Government are to pay to the Company 25 times the average net earnings of the Lalkua-Kashipur-Mora/labad-Ramnagar branches during the 5 years immediately preceding the termination, provided such sum does not exceed by more than 20 per cent, nor be less than, the capital expenditure on those railways.
 - [Note,—The cost of making good any shortcomings which render the value of the line not commensurate with the capital expended may be deducted from the purchase price payable.]
 - The Government may also determine the contract at any time on 6 months' notice (called the "Notice of Determination") if the Company fail to observe its obligations, on payment of the value of the permanent-way, stock and plant, or may call upon the Company to accept the same in lieu of payment, in. which latter case the Company must remove its property within 9 months from the termination of the contract, otherwise it becomes the property of the Government.
 - Contract of 1909: By clause 18 of the contract of the 24th March 1909, if either the contract of 1890 be determined from any cause or that of 1909 be determined by "Notice of Parchase" as far as each relates to "the State lines", but not further or otherwise, then the other of the two contracts ipso facto terminates at the same time.

Rohilkund and Kumaon railway (3' 3%" gauge)-concld.

Main provisions of contracts-conold,

By clause 19 of the contract of the 24th March 1909, that contract so far as it relates to "the Scheduled Company's Works" (the Pilibhit-Shahjahanpur line), in common with the contract of 1904 terminates ipso facto with the determination by "Notice of Purchase" of the Company's original contract of the 12th October 1882, the Government, however, only having the power to purchase "the Company's original line", "the Branch railways" and "the Scheduled Company's Works" collectively, not any of them separately from the other or others of them.

By clause 20 of the contract of the 24th March 1909-

- (a) the contract of 1909 so far as it relates to "the Additional Main Line Works" terminates inso facts with the determination by "Notice of Determination" of the Company's original contract of the 12th October 1882.
- (b) the contract of 1909 so far as it relates to "the Branch Line Works" terminates ipso facto with the determination by "Notice of Determination" of the contract of 1904, except as noted above against clauses 18 and 20 of the contract of 1909 and also except as provided for in clause 77 of the contract of 1890, the several powers of the Government to determine by "Notice of Determination" the contracts respectively of 1882, 1890 and 1904, and also that of 1909 so far as they relate to "the State Line Works" to "the Additional Main Line Works" and to "the Branch Line Works", remain separate and unaffected, and are exercisable as to any one or parts thereof independently and without prejudice as to the continuance of the others or parts thereof, in the event of the Company failing to observe its obligations contained in the contract or part of the contract which it is sought to determine: provided that the powers of the Government to determine, by "Notice of Determination", the contract of 1909 so far as it relates to "the Additional Main Line Works" and to "the Branch Line Works" are exercisable separately in respect of any line or branch forming an independent part of such works, if the Company fail to observe its obligations in regard thereto.
- (viii) Power of the Company to surrender contract .- Nil.
- (ix) Term of contract.—Those of 1882, 1904 and 1909, up to the 31st December 1981; that of 1890, up to the 31st December 1932.

Statistics of working --

	Ye	ur.	Milenge suspense, to e open at of each year, outlay on the suspense, to each year, outlay on the suspense or whelly under construction		outlay en (i)	Gross earnings.	Not carnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to carnings.	Remares.
		ι		2	3	1	5	6	7	8	9
				Miles.	Rs.	Rs.	Rs.		Rs.		
1881				55'00	19,40,266	36,543	1.733	0.09	51	95.26	
885	- 1		•	55.00	21.71,124	2,38,572	80,153	3.69	68		Net earning
	•	•	•	1		2,00,015	00,100	0 00	00	66.40	from 1885 to
1886				55:00	22,52,962	3,00,191	1,23,832		600		1894 include at
887	٠		•					5.20	86	58.75	annual subsid
888	•	•	•	55.00	22,91,619	3,19,274	1,16,800	510	95	63.42	of Rs. 40,000.
555	٠	٠		5 00	23,40,100	3,31,092	1,42,120	6.67	96	57:46	
389	٠			55.00	23,96,624	3,72,270	1,60,135	6.68	107	56.98	
890				55.00	21,17,052	3,14,834	1,51,003	6.25	90	52.04	
									i		
991				53.93	20,49.158	3,85,084	1,60,081	7.81	112	58.43	
92				53 92	20,58,575	4,33,648	1,97,750	9.61	127	54.39	1
393				53.92	20,82,280	1,25,909	1,83,180	8.80	124	56.99	ĺ
394				53.93	20,80,410	4,59,318	2,15,191	10.34	134	53.15	
895				53.92	20,78,251	4,04,504	1,52,209	7:32	118	62.37	
									i		
396				53.92	20,79,863	4,26,905	1,53,821	7.40	125	63.96	
:97				53.92	21,20,428	4,23,720	1.72.319	8.13	124	59· 8 3	
898				53.93	21,42,552	4,62,308	2,20,785	10.30	135	52.24	
390				53.92	21.48.313	4,65,623	2,34,020	10.89	136	49.74	
100				53.92	21,53,125	4,87,572	2,28,048	10.59	128	47.88	
			- 1			-,,				41 00	
301	٠.			53.92	22,09,423	3,84,314	2,09,896	9.50	112	45.38	
303				53.92	23,36,911	4,10,626	2,18,317	9:34	120	46.83	
903				53.92	25,89,790	4,13,147	2,20,405	8.21	121	46.65	
904				53.92	43,55.575	1,18,787	2,24,403	5.15	122	46'41	
905	:	:		53.92	93,34,559	4,40,664	1,54,126	1.65	129	65.02	l
•	•	•	• :	000-	00,00,000	1,20,000	1,02,120	1.00	125	09.08	The decrease i
906			!	317.87	1,16,58,319	8,03,607	3,65,161	3.18	124	54.56	net earnings i
	:	•	٠,	117.87	1,28,55,065	10,67,928	5,69,506	4.43	158	46.67	1905 is due t
108	•	•	• (203.35	1,35,79,271	11,44,078	5,50,193	4.05	102		the heavy out
		•	• 1	202 06	1,86,93,877	12,70,929	6,26,391	4.57	121	51.91	lay on relaying
09	•	•	• 1		1,00,00,011	10.40.140	7 Cu 40r	5.00		50.71	the main line.
10	•	•	• ;	202.06	1,52,28,920	13,46,150	7,62,425	300	128	48.86	
11			- 1	225.20	1,59,24,548	14,78,586	7,99,809	5.02	128	45.00	
	٠	•	• 1	256.82	1.62,89,858	18,99,670	11,51,734	7:07	144	45 72	
12	٠.	1010	•			4,88,833	2,99,341		199	89.37	
t qr	OE	1913	• [256.32	1,63,05,789			1.84	37	88.76	
)18 - 1	4	•	• 1	256 32	1,67,73,681	18,84,583	10,57,658	6.80	141	43.88	
14-1	5	٠	•]	256.82	1,69,38,647	15,58,479	7, 89,623	4.87	117	52.54	
			- 1	238.84	1,69,99,623	17.25.863	9.13.086	5.87	128	49.00	
15-1	ē	•	•							47:09	
16-1 17-1	7	•	• 1	258'72	1,69,41,247	18,90,718	11,11,676	6.26	141	41-20	
	×			258 72	1,68,16,023	21,68,662	12,19,547	7 25	161	43.76	

Lucknew-Bareilly railway (3' 3\squage).

Progress in opening-

Sections of re		y .				•	Date of opening.	Miles.	Total.	Gran d total
1			-		••		3	8	•	
Ke in line—							;			
Lucknow to Sitapur							15-11-86	55 ∙0 0		
Sitapur to Lakhimpur	-	•					15-4-97	28:50		1
Lakhimpur to Gola Gokaran Nath			•	•			15-12-87	21.20		
Gola Gokaran Nath to Pilibhit .		•			•		1-4-91	57.55		
PHibhit to Bhojeepura		•					15-11-84	24.00		:
Bhojespura to Bareilly							12-10-84	16.00		
Branches and extensions—			÷						198-55	and the second
Bareilly grain siding			•				1-4-94	1.75		
Tauridlaghat estension —							-		1.75	
Mailani to Sarda						•	1-1-93]			
Sarda to Sobela	•						10-3-93	80.78		
Schela to Sonaripor	•			•			18-8-94.)			
Someripur to Kauriálaghat		•			•		3-1-11	20-54		† †
handan Choki extension—									****	1
Dudhwa to Chandan Choki				:			1-4-03	7.57	51-32	
auri Phanta extension—							-		7.57	
Dudhwa to Gauri Phanta							15-1-14	14:49		1
armise extension —							-		14.49	
Pilibhit to Barmdeo							15-5-12	38•75		
•							-		38.75	
										1
	Gı	ran d	тот	A L						812-48

Details of construction-

Permanent-way.—The permanent-way consists of 411-lb. and 50-lb. steel rails on sal sleepers.

Ballast.-The ballast consists of broken brick, kunkur and shingle.

Fencing .- The line is partially fenced.

Curves .- There is only one curve with a radius of less than 1,000 feet.

Gradients.—The ruling gradient between Lucknow and Bareilly is 1 in 500, except near Lucknow and Bareilly, where it is 1 in 200; between Mailani and Kaurallaghas, 1 in 400 and between Dudhwa and Chandan Choki, 1 in 100.

Contracts—

As noted under Robilkund and Kumaon railway (8'8 gauge).

Main provisions of contracts—

Lucknow-Bareilly railway (3' 3%" gauge)-concld.

Statistics of working. (Those for the periods prior to 1891 will be found in Appendix 38 to the Railway Administration Report for 1907).—

Year.	Mileage open at end of each year.	Total capital ontlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construc- tion.	Gross carnings.	Net earnings.	Percentage of net earuings on total capital outlay given in column (3).	Interest.	Company's share of surplus profits (based on terms of contract) attributable to each year.	Gain or loss to the State pertaining to each year.	Eamings per mile per week.	tion of expen- ses to
1	2	3	4	5	6	7	8	9	10	11
1891 1892 1893 1894	Miles. 198:38 198:38 222:05 231:17 231:17	Ra. 79,17,846 81,68,804 83,89,862 85,98,158 87,22,466	Rs. 4,95,068 6,82,826 7,28,878 9,72,269 8,25,934	Hs. 1,72,145 2,74,601 2,73,541 3,94,240 3,13,116	2·17 5·36 3·26 4·59 3·50	Rs. 2,72,055 3,07,651 3,26,776 8,45,323 3,56,596	Rs. 10,658 3,495 24,180 15,884	Rs. 99,910 43,686 56,724 +- 24,787 59,314	Rs. 56 66 67 88 74	65-28 59-79 62-47 59-45 31.09
1896 1897 1898 1899	231·17 281·17 281·17 281·17 221·17	89,68,62 98,02,71 94,90475 94,97,48 99,21,432	8,27,599 8,27,371 10,34,088 12,72,160 12,53,801	3,02,071 3,35,776 5,00,200 6,33,355 6,51,957	3:37 3 :61 5:27 6:67 6:57	3,48,885 3,61,550 3,64,852 3,65,537 3,73,097	11,570	- 60,229 - 87,344 + 67,290 + 1,42,178 + 1,43,945	75 75 94 114 407	68:50 59:49 51:68 50:21 48:00
1901 1902 1908 1904 1905	281·17 231·17 287·04 297·04 287·04	1,01,82,243 1,12,96,019 1,15,01,911 1,17,14,505 1,17,99,857	18,72,520 14,53,329 14,03,266 14,96,120 15,47,488	7,58,124 7,69,568 7,48,689 7,97,671 8,20,992	7·44 6·21 6·51 6·81 6·96	3,91,796 4,23,528 4,53,825 4,48,326 4,50,448	75,769 67,704 53,222 61,426 65,048	+ 2,90,559 + 2,78,836 + 2,41,642 + 2,87,917 + 3,05,496	129 132 126 138 138	14 78 17 05 16 65 46 68 46 95
1906 1907 1908 1909 1910	237·04 237·04 237·04 237·04 237·04	1,29,09,658 1,24,59,395 1,27,50,545 1,43,82,816 1,60,60,757	16,55,250 16,97,182 16,15,542 17,17,491 18,25,185	8.36,782 9,07,863 7,80,747 7,84,749 10,15,746	6:97 7:29 6:12 5:46 6:32	4,57,598 4,18,611 4,50,365 4,11,181 4,75,558	65,252 73,229 48,511 44,700 80,364	+ 3,13,942 + 4,16,028 + 2,81,871 + 8,28,918 + 4,59,824	148 150 131 159 148	49.46 46.56 51.67 54.31 46.38
1911 1912	257·57 296·32	1,72,02,079 1,83,58,912	19,40,498 22,67,946	10,44,604 13,67,532	6.07 7.45	5,07,263 5,66,969	74,720 1,21,088	+ 4,62,621 + 6,80,480	152 157	46·17 39·70
1st qr. of 1913. 1918-14 . 1914-15 .	296 32 298 02 812 51	1,87,59,973 1,91,90,007 2,02,30,297	0,65,878 22,50,819 19,40,856	4,06,008 12,45,837 8,79,923	2·16 6·49 4·35	1,65,812 6,84,031 7,07,593	32,297 74,936 19,655	+ 2,07,899 + 4,86,870 + 1,52,675	42 148 119	89·03 44·64 54·66
1915-16 . 1916-17 . 1917-18	312:51 312:51 312:48	2,00,77,006 1,98,31,693 1,98,51,296	20,17,355 23,98,560 27,04,857	10,15, 377 13,90,059 15,02,723	5:05 7:01 7:57	7,89,732 7,21,881 7,31,984	34,141 87,524 1,03,262	+ 2,41,504 + 5,80,704 + 6,67,177	124 148 166	49:67 12:05 41:44

Powayan Light railway (2' 6" gauge)

The line was constructed originally by the Powayan Steam Tramway Company and the maintenance and working were taken over by the Rohilkund and Kumaon Railway Company from 17th December 1900.

Date of registration of the Company.—22nd April 1887.

Progress in opening-

				Section	nis of	rail	vay.					Date of opening.	Miles.	Total.
					1			-				2	3	4
Shahjabanpur to Powayan												17-6-90	17:18	
Powayan to Khotar Khotar to Mailani	:	:	:	:	:	:	:	:	:	:	:	19-5-91 22-12-94	13.86 7.82	
									Tor	A L				38 ·8 6

Details of construction -

Permanent-may.—The permanent-way consists of flat-footed steel rails, weighing 21-lb. to the yard, laid on sal sleepers.

Ballast. - The line is ballasted with earth,

Fencing .- The line is unfenced except at Shahjahanpur station.

Curves.-There are no curves with a radius of less than 300 feet.

Gradients.-The line is not graded.

Local Government orders and contracts-

Powayan Steam Tramway Company Order, 1889, published under Notification by the Government of the North-Western Provinces and Oudh (now United Provinces of Agra and Oudh), No. 1803-W. R., dated the 18th December 1889, authorising the construction of a steam tramway from Shahjahanpur railway station on the Oudh and Rohilkhand railway to Khotar.

"Further Order" of the Powayan Steam Tramway Company, 1894, published under Notification by the Government of the North-Western Provinces and Oudh (now United Provinces of Agra and Oudh), No. 118—17-W. R., dated the 23rd April 1894, authorising the construction of an extension of the Powayan Steam-tramway from Khetar to Mailani railway station on the Lucknow-Bareilly railway.

Contract, dated the 1st July 1901 (called the Tramway Company's contract), between the Secretary of State and the Powayan Steam Tramway Company, as to handing over to the Secretary of State, or to the Working Agency appointed by him, the Tramway for maintenance, management and working.

pewayan Light railway (2' 6" gauge)-concld.

Local Government orders and contracts-concid.

- Contract, dated the 6th November 1902 (supplemental to the contracts of 1882, 1890, 1892 and 1901, noted under Robilkund and Kumaon railway), between the Secretary of State and the Robilkund and Kumaon Railway Company, as to the maintenance, management and working of the Powayan Steam Tramway.
- Contract, dated the 18th July 1906, between the Secretary of State and the Robikund and Kumaon Railway-Company, as to the provision of moneys for capital expenditure, and acquisition by the Railway Company of interest in the Powayan Steam Tramway Company.
- Contract, dated the 16th January 1912 (supplemental, or to be read as an annexure, to the contract of 1901), between the Secretary of State and the Powayan Steam Transay Company, as to certain alterations and modifications in the provisions of clauses 2 and 18 of the contract of 1901 in regard to its determination.
- Contract, dated the 17th May 1914 (supplemental, or to be read as an annexure to the contracts of 1901, 1902 and 1912), between the Secretary of State of the first part, the Powayan Steum Trammay Company of the second part and the Robithund and Kumnon Railmay Company of the third part modifying the terms of the working agency agreement of 1st July 1901 as to half-yearly dates for making up the accounts.

Main provisions of Local Government orders and contracts-

- (i) Land.—Provided at the cost of the Company, other than the portion of the provincial road which the Company is authorised to use.
- (ii) Government aid.—The line, subject to interests acquired therein by the Rohilkund and Kumaen Railway Company, is the property of the Powayan Steam Tramway Company, and is managed, maintained and worked by the Rohilkund and Kumaen Railway Company on behalf of the Government.
- (iii) Terms of working.—The working agency retains 70 per cent of the gross earnings of the tramway until the line is fully equipped, and thereafter the same percentage as that at which the Rohilkund and Kumaon Railway Company's "open system" is worked, subject to a minimum of 60 per cent.
 - [Norm.—The percentage so retained by the working agency is in full satisfaction of the cost of petty works, rolling-stock, plant and machinery costing not more than Es. 200, subject to the limit of Es. 20 per mile per half-year. The cost of petty works rolling-stock, plant and machinery exceeding those limits is to be borne by the Capital count of the Tranway Company. 1
- (iv) Distribution of profits.—After payment of working expenses as above noted and contributions to the Working Agency's Provident Fund, the balance of the gross earnings, if any, are paid over to the Tramway Company.
- (v) Rates and fares. -To be those from time to time applicable to the Lucknow-Bareilly railway.
- (vi) Special obligations as to the conveyance of .-
 - (a) Mails, police, troops, high Government officials and Government stores. Not specified.
 - (b) Government bullion and coin, and the persons in charge thereof .--

(vii) Power of the Government to determine contract.—Government may terminate the contract on the 31st December 1932, or on the 31st December in any subsequent year but not earlier, on 12 months' notice given. Government may also terminate the contract at any time, on 6 months' notice, if the Company fails to observe its obligations.

Government also have the option, on giving 12 months' notice to the Transway Company, after the Shahjahanpur-Khotar section has been open for public traffic for 15 years and the Khotar-Mailani section for 10 years, and thereafter at terms of 7 years each, to take over the transway on paying the Transway Company the value of the property as a dividend-carning investment at the date of giving such notice, with an additional bonus of 20 per cent over and above such value.

- (viii) Power of the Company to surrender contract. Nil.
- (ix) Term of contract [if not determined under (vii)].-Up to the 31st December 1932.

tatistics of working. (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907).—

	Year.		Mileage open ut end of each year.	Total capital outlay, including suspense to ead of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earn- ings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
	1		2	3	4	5	6	7	8
1908 1909 1910 1911 1912 1st qr. of 1918-14 1916-15 1915-16 1916-17	1913	 :	 Miles. 39:50 39:50 39:50 39:50 39:50 39:50 39:50 39:50 39:59 38:86	Rs. 8,94,801 8,94,801 8,94,801 8,94,801 8,94,801 8,94,801 8,94,801 8,94,801 8,94,801 8,94,801 8,94,801 8,94,801	Ra. 81,450 91,687 95,386 1,02,692 1,01,188 20,797 97,968 83,860 96,562 1,00,729 1,08,378	Bs. 32,292 36,352 37,799 40,737 40,213 8,262 38,875 38,144 38,695 39,985 40,625	3:60 4:06 4:22 4:55 4:49 0:92 4:84 3:70 4:28 4:47 4:54	Rs. 40 45 46 50 49 44 48 40 47 49 50	60 85 60 35 60 31 60 33 60 26 60 27 60 82 60 00 60 00 60 00 60 28

UDAIPUR-CHITORGARH RAILWAY (3' 31" gauge).

The line was constructed at the expense of the Mewar Durbar, and was maintained and worked by the Bombay, Baroda and Central India Railway Company up to the 31st December 1897. With effect from 1st January 1898 the maintenance and working of the line were taken over by the Durbar.

Running powers-

Home line over Foreign line .-

Bombay, Baroda and Central India railway, 8' 81" gauge, Berach Signal station to Chitorgark

Miles.

Progress in opening-

Sections o	Date of opening.	Miles.	Total.							
1					~~~			2	3	4
Berach near Chitorgarh to Debari near Ud	•							1-8-95	60:39	
Separate station at Chitorgarh							٠.]	15-8-98	0.47	
Debari to Udaipur		•	•	٠	٠		.]	25-8-99	6:44	
					Tor	AL.			**	67:3

Details of construction-

Permanent-way.—The permanent-way consists of 411-lb. flat-footed steel rails laid on deodar sleepers.

Ballast.-The ballast consists of broken stone.

Yencing .- The line is fenced round stations and between Udaipur and Debari.

Curves.—On the Berach-Debari section the sharpest curve is of 1,146 feet radius; and on the extension from Debari to the Ahr river, near Udaipur, at the 61st mile, the sharpest curve has a radius of 820 feet.

Gradients .- The ruling gradient is 1 in 120, except on the section Debari to Udaipur where it is 1 in 100.

Contracts-

Nel .- The line is owned and worked by the Mewar Durbar.

Statistics of working. (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907).—

Year.	Mileage open at end of each year.	Total capital outlay, including enspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings,	Not carnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	3	. 3	4	. 5	6	7	8
	Miles.	Rs.	Rs.	Rs.		Rs.	
1908	67:30	20,77,554	2,38,916	1,18,044	5·68	68	50°59
1909	67:30	20,96,888	2,48,050	1,24,855	5·95	69	48°62
1910	67:30	20,97,410	2,52,090	1,83,470	6·3 6	72	47°05
1911	67:30	21,15,981	2,84,208	1,58,802	7·24	81	46:07
	67:30	21,95,945	3,05,495	1,57,311	7·16	87	48:50
	67:30	21,06,086	91,789	54,629	2·48	104	40:48
	67:30	22,34,126	3,19,133	1,65,844	7·40	91	48:18
	67:80	22,40,204	2,65,532	1,07,157	4·78	76	59:64
1915-16	67:30	22,59,354	3,24,163	1,53,016	6·77	98	59 79
	67:30	22,77,052	8,75,018	1,91,929	8·43	107	48 80
	67:30	22,84,476	2,76,243	1,31,248	5·75	78	58 48

AHMADPUR-KATWA RAILWAY (2' 6" gauge)

Date of registration of the Company .- 3rd November 1915.

Sanction to the construction of this line by the Ahmadpur-Katwa Railway Company was conveyed in Bailway Board's Notification No. 314, dated the 16th November 1914.

Progress in opening-

Section of railway.											Date of opening.	Miles.	Total.		
				1									2	3	4
Ahmadpur to Pachandi Pachandi to Katwa .	•												80-5-17 29-9-17	24°43 7°64	
										To	rat.		***	•••	83.36

Datails of construction-

Permanent-way.—The permanent-way consists of new 35-lb. flat-footed and 2nd hand 55-lb. rails laid on sal sleepers.

Ballast.—The line is tallasted with moorum, except in station yards and on open top bridge approaches where stone or brick ballast is used.

Fencing .- The line is unfenced.

Curves .- The sharpest curve is of 573 feet radius.

Gradients .- The ruling gradient is 1 in 200.

Contract-

The line was constructed and is being worked under the terms of a contract between the Secretary of State and the Ahmadpur Katwa Railway Company which is under consideration.

Statistics of working-

Year.	Mileage open at end of the year.	t o end of the year, Gross		Net earnings.	Percentage of net carnings on total capital outlay given in column (3).	Guaranteed interest recoverable from Govern- ment.	Total income.	Percentage of total income on total capital outlay given in column (3).	Wanni	Proportion of expenses to earnings.
1	2	, 8	4	5	6	7	8	9	10	11
1917-16 .	Miles. 82.26	Rs. 19,50,145	Rs. 54,497	Re. -780		30,170	29,390	1.21	Re. 43	Ra. 101 45

AMBAJI-TARANGA LIGHT RAILWAY (2' 6" gauge).

Date of registration of the Company .- 1st September 1905.

The construction of this line by the agency of the Ambaji-Taranga Light Railway Company was authorised by the Railway Board in their letter No. 1693-R. C., dated the 8th July 1911.

Progress in opening -

Section of railway.	Date of opening.	Miles.	Total.
1	2	3	4
Varetha Junction to Baroda Frontier (Ranctioned on 8th July 1911)		1.64 18.86	
Total.			20.50

ARAKAN LIGHT RAILWAY (2' 6" gauge).

Date of registration of the Company .- 16th October 1916.

The construction of the line, from Buthidaung to Maungdaw, by the Buthidaung-Maungdaw Tramway Company having fallen through, the formation of a new Branch Line Company for taking over and completing the line was authorised in Railway Board's letter No. 19 P.-16, dated the Sth March 1916. The Company formed is known as the Arakan Light Rulway Company, after which the undertaking has been named.

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
1	2	3	4
Buthidaung to Maungdaw (sanctioned on 6th June 1911)		18.50	18'50

ARRAH-SASARAM LIGHT RAILWAY (2' 6" gauge).

Date of registration of the Company .- 19th October 1909.

Progress in opening-

Sect	ions of	rail	way.						Date of opening.	Miles.	Total.	Remarks.
,	1	l 				 			1	\$	4	5
Arrah to Sasaram									6-8-11	60.20		
Sasaram to Tarachandi Hill	•		•	•	•		•	٠	12-11-14	*4-66		eFor goods traffic only.
,						Ton	PA I.	٠			65.16	,

Details of construction-

Permanent-way.—The permanent-way consists of 30-lb. flat-footed steel rails on sal sleepers.

Ballast.-The line is ballasted with broken stone.

Fencing .- The line is unfenced.

Curves.—The sharpest curve is of 573 feet radius, between Arrah and Sasaram and 150 feet between Sasaram and Tarachandi Hill.

Gradients.—The ruling gradient is 1 in 250, between Arrah and Sasaram and 1 in 100 between Sasaram. and Tarachandi Hill.

Local Government orders and agreements-

The Arrah-Sasaram Tramway Company order published under the Bengal Government, Railway Department, Notification No. 39 R., dated the 12th October 1909, authorising the construction of a line from Arrah to Sasaram in the district of Shahabad.

Agreement, dated the 15th October 1903, between the District Board of Shahabad and Messes, Martin and Company of Calcutta (called "the Promoters") by and on behalf of the Arrah-Sasaram Light Railway Company, as to the grant of a concession to the Company of the right to construct and work the line.

Agreement, dated the 30th October 1912 (supplemental to the agreement) as to the construction, mainof 15th October 1909), between the District Board of Shahabad and tenance and working of
the Arrah-Sasaram Light Roilway Company;

The Arrah-Sasaran Tarachandi Hill extension order published under the Bihar and Orissa Government, Railway Department, Notification No. 4760 R., dated the 8th September 1913;

s to the construction, maintenance and working of the extension from Sasaram to Tarachandi Hill as a part of the Arrah-Sasaram Light railway.

Main provisions of Local Government orders and agreements-

- Land.—Provided at the cost of the Company, except one side of the district road the free use of which is authorised.
- (ii) Aid by the Local authority.—The District Board of Shahabad recommend and apply to the Local Government to exempt the Company from the tax on account of road cess, or to exact only a nominal tax, for a period of 21 years from the date when the line is opened for traffic, with power of renewal. The Board also guarantee to supplement the not earnings of the Company by such annual subsidy as may be necessary to allow of it paying a dividend of 4 per cent per annum on their share capital, provided that the total liability of the Board on this account in any one year shall not exceed Rs. 88,000 or the sum of 4 per cent on the Company's share capital whichever is less.
- (iii) Distribution of profits.—Surplus profits in excess of 4 per cent on the capital for the time being of the Company are divisible equally between the District Board of Shahabad and the Company.
- (iv) Rates and fares.—Certain maximum rates of fares for passengers and the adoption of the General Classification of goods with separate maximum and minimum rates for goods of the different classes have been prescribed. Full control over charges of all kinds is reserved to the Local Government.
- (v) Special obligations as to the conveyance of .-
 - (a) Mails, postal officers and servants on duty.—To be conveyed at the rates and on the conditions-in force from time to time on State railways.
 - (b) Troops, police, high Government officials and Government stores.—
 (c) Government bullion and coin, and the persons in charge thereof.—
- (vi) Power of the bocal authority to determine agreement.—Upon the expiration of 21 years from the date of the Local Government order authorising the construction of the line, or at the end of every 7 years thereafter, the District Board have, by giving six months' previous notice, the right of purchasing the line by paying to the Company 25 times the yearly average net earnings of the 3 years preceding the purchase, subject to a maximum of 120 and a minimum of 100 per cent of the capital cost.

ARRAH-SASARAM LIGHT RAILWAY (2' 6" gauge)-concld.

Main provisions of Local Government orders and Agreements-concld.

- (vii) Power of the Company to surrender agreement .- Nil.
- (viii) Term of agreement [if not determined under (vi)] .- Not specified.

Year.	Mileage open at end of each year.	Total capital ontlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines purtly or wholly under construction.	Gross earnings.	Net earn- ings.	Percent- age of net earnings on total capital outlay given in column (3).	Subsidy from (+), or share of surplus profits to (-), the District Board.	income	Percentage of total income on total capital outlay given in column (8).	Earn- ings per mile per week.	Proportion of expenses to earnings.
1	2	′ 8	4	5	6	7	8	9	10	11
1911 1912 18t qr. of 1913 1918-14 1914-15 1916-17 1917-18	Miles, 60°50 60°50 60°50 60°50 65°26 68°16 68°16 68°16	Ra. 20,75,772 21,96,127 22,05,706 22,31,435 22,74,782 29,88,079 22,67,336 22,67,557	Rs. 1,38,386 1,72,469 45,682 1,94,799 2,12,951 1,96,050 2,26,342 2,53,527	Rs. 44,286 59,379 16,472 71,403 88,320 79,328 1,00,239 1,36,341	2·13 2·71 0·75 3·20 3·88 3·46 4·42 6·01	8s, +15,581 +21,805 +4,681 +17,932 +253 +13,256 -7,394	59,867 81,184 21,153 89,835 88,573 92,584 1,00,239 1,28,947	2*88 3*69 0*95 4*60 3*89 4*04 4*42 5*68	Rs. 45 54 58 61 65 58 67 74	66·79 65·54 68·94 68·97 58·50 59·01 85·70 40·23

BANGALORE-CHIK BALLAPUR LIGHT RAILWAY (2' 6" gauge).

This railway is an enterprise by an Indian Company floated for the purpose under a guarantee from the Mysore Durbar of 4 per cent per annum on the subscribed capital. Its construction was sanctioned by the Secretary of State for India in his Despatch No. 75 Railway, dated the 10th September 1909. As the Company was unable to raise the entire capital, the Durbar undertook to advance the balance of capital as joint owners of the railway and gave the Company the option of paying back the amount later on:

Running power-

Home line over foreign line-

Miles.

Yesvantpur to Yelabanka, Madras and Southern Mahratta (3' 3%" gauge) rajlway, with the help of a 3rd rail.

6.85

Progress in opening-

Sections of railway.		Date of opening.	Miles.	Total.	Remarks.
The second of th	_	2	3		
Bangalore City to Yesvantpur		7-1-18	3:50		
Yesvantpur to Yelahanka		1-2-17	*6.20		*This is on a mixed (8' 3
Yelahanka to Dewanhalli		15-9-14	14.21		and 2' 6") gauge.
Devamali to Chik Ballapur		1-8-15	14.23		
TOTAL OPEN MILEAGE			٠	88 74	

Details of construction-

Permanent-way.—The permanent-way consists of second-hand 411 lb. flat-footed steel rails, purchased from the Madras and Southern Mahratta Railway Company, laid on steel sleepers. Teak sleepers have been used in station yards.

Ballast.—The line is for the present packed upon gravel ballast.

Fencing.-The line is unfenced.

Curves .- The sharpest curve is of 1,146 feet radius.

Gradients.-The steepest gradient is 1 in 100.

Agreement-

The line has been constructed and is being worked by the Mysore Durbar on behalf of the Company under the terms of an agreement which is under consideration.

Y ear.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1914-15 . 1915-16 . 1916-17 . 1917-18 .	2 Miles. 14.72 28.65 85.24 38.74	3 1ks. 7,80,164 10,18,739 9,11,740 11,57,684	4 Rs. In 52,503 71,660 1,04,642	5 Rs. formation not 18,397 16,826 33,182	available. 1.81 1.79 2.96	7 Rs. 35 39 56	64 96 77 91 68 84

BANKURA-DAMOODAR RIVER RAILWAY (2' 6" gauge).

Date of registration of the Company .- 30th March 1914.

Sanction to the construction of this line by the Bankura-Damoodar River Railway Company was conveyed in Railway Board's Notification No. 103, dated the 1st May 1914.

Progress in opening-

	Sect	ions	of ra	il w a;	у.						Date of opening.	Maes.	Total.
			1								2	3	
Bankura to Indas Indas to Fakirpur Fakirpur to Rainagar	:	:	•	:	:	:	:	:	:	:	15-12-16 1-4-17 6-6-17	42:84 11:66 5:95	
								Тот	AL				59 -95

Details of construction-

Permanent-way.—The permanent-way consists of 35-lb, flat-footed British standard section rails laid on sall sleepers.

Ballast .- Moorum is used on embankment and brick in cuttings.

Fencing .- The line is unfenced.

Curves.—The sharpest curve in station yards has a radius of 573 feet.

Gradients .- The ruling gradient is 1 in 150.

Jentract-

The line was constructed, and is being worked, under the terms of a contract, between the Secretary of State and the Bankura-Damoodar River Railway Company, which is under consideration.

Year.	Milengo	Total capital outlay including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines open and wholly under construction.	1	Not earnings.	Percentage of net earnings on total capital outlay given in column (3).	Guaran- teed interest recover- able from Govern- ment.	Total in- come.	Percentage of total income on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to carnings.
1	2	8	4	. 5	6	7	8	9	10	11
1916-17 . 1917-18 .	Miles. 42.69 59.95	Rs. 33,93,875 35,57,279	Rs. 22,483 1,28,046	Rs. 2,485 6,928	0 07 0 19	59,489	66,417	1.87	Rs. 10 41	58-92 94-58

BARASET-BASIRHAT LIGHT RAILWAY (2' 6" gauge).

Date of registration of the Company .- 30th July 1903.

Progress in opening-

Sections	f railw	у.						Date of opening.	Miles.	Total .	Grand total
	1							2	8	4	5
Main line-											
Baraset to Basirhat Basirhat to Chingrighata .		:	:	:	:	:		1-2-05 2-8-09	26.00 8.20	34.20	
shamba zar branch –											
Beliaghata Bridge to Pattipooke Pattipooker to Belgatchia (Shar	er nbasur)	• :	:	:	:	·	•	16-2-10 12-10-14	16·62 1·1 2	17:74	
			G	RANI	тот	'A L	. 1				52.84

Details of construction-

Permanent-way.—The permanent-way consists of 30-lb. flat-footed steel rails on pynkado, sal and Australian jarrah wood sleepers.

Ballast .- The line is ballasted with broken brick.

Fencing. - The line is unfenced.

Curves .- The sharpest curve has a radius of 400 feet.

Gradients.-The ruling gradient is 1 in 250.

Agreements and Local Government orders-

Agreement, dated the 14th December 1897 (called the principal agreement), between the District Board of the 24-Parganas and Messrs. Martin and Company on behalf of the Baraset-Basirhal Tramway Company, Limited, as to the grant of a concession to the Tramway Company by the District Board;

Agreement, dated the 14th May 1902 (supplemental to the agreement of 1897) between the District Board of the 24-Parganus and Messrs. Martin and Company on behalf of the Baraset-Basirhat Tramway Company, Limited, modifying clause 4 of the agreement of 1897;

The Baraset-Basirhat Transway Company order, published under the Bengal Government, Railway Department, Notification No. 86 R., dated the 15th May 1903;

as to the construction, maintenance and working of the line from Baraset to Basirhat.

Agreement, dated the 3rd August 1903, between the District Board of the 24-Parganas, Messrs. Martin and Company and the Baraset-Basirhat Light Railway Company, Limited, as to the adoption as between the Board and the new Railway Company of the agreement of 1897 as modified by the agreement of 1902, and as to the discharge of the Promoters from all liability thereunder or in respect thereof.

Agreement, dated the 6th November 1907 (supplemental to the agreements of 1897, 1902 and 1903), between the District Board of the 24-Parganas and the Baraset-Basirhat Light Railway Company, Limited;

The Baraset-Basirhat-Taki Extension order, published under the Bengal Government, Railway Department, Notification No. 22 R., dated the 23rd November 1907;

Agreement, dated the 21st December 1908 (supplemental to the agreements of 1897, 1902, 1903 and 1907), between the District Board of the 24 Parganas and the Baraset-Basirhat Light Railway Company, Limited;

The Baraset-Basirhat-Pattipooker Extension order, published under the Bengal Government, Railway Department, Notification No. 9 R., dated the 19th February 1909;

as to the construction, maintenance and working of the extension from Basirhat to Taki and Hosanabad as a part of the B a r a set-Basirhat Light railway.

as to the construction, maintenance and working of an extension from Beliaghata bridge to Pattipooker, as part of the Baraset-Bas ir hat Light railway.

BARASET-BASIRHAT LIGHT RAILWAY (2' 6" gauge) -- concld.

Agreements and Local Government orders-concid.

Agreement, dated the 7th August 1914 (supplemental to the aforesaid agreements)

between the District Board of the 24 Parganas and the Baraset-Basirhat
Light Railway Company, Limited;

The Baraset-Basirhat-Belgatchia extension order, published under the Bengal

Light Railway Company, Limited;

The Baraset-Basirhat-Belgatchia extension order, published under the Bengal Government, Railway Department Notification No. 12 R., dated the 15th Basirhat Light

Railway.

Main provisions of agreements and Local Government orders-

- (i) Land,—Land, other than portions of the Calcutta-Jessore Road and the District Road between Baraset and Taki, the free use of which in perpetuity is authorised by the Local Government and the District Board, respectively, provided at the cost of Company's capital.
- (ii) Aid by the District Board.—The District Board recommend and apply to the Local Government either to exempt the Company from the road cess or to exact only a nominal tax for a period of 21 years from the date when the line is opened for traffic, with power of renewal. The District Board also guarantee such an annual subsidy as may be necessary to make the net profits of the Company equal to Rs. 1,500 per mile of line open, provided that the total contribution by the Board does not exceed Rs. 38,000 per annum, being 4 per cent on the amount of the Company's share capital.
- (iii) Distribution of profits.—Surplus profits in excess of 4 per cent on the Company's share capital are divisible equally between the District Board and the Company.
- (iv) Rates and fares.—Certain maxima fares for passengers, and a tariff of charges for goods have been fixed. Full control over charges of all kinds is reserved to the Local Government.
- (v) Special obligations as to the conveyance of .-
 - (a) Mails and postal officers and servants on duty.—At the rates and on the conditions in force from time to time on State railways.
 - (b) Troops, police, high Government officials and Government stores.
 (c) Government bullion and coin, and the persons in charge thereof.
- (vi) Power of the District Board to determine agreement.—Upon the expiration of 21 years from the date of the Local Government order authorising the construction of the line, or at the end of every 7 years thereafter, the District Board, by giving 6 months' notice, can purchase the undertaking by paying to the Company 20 times the average not annual profits of the 4 years preceding the transaction, together with a bonus of 20 per cent thereon.
- (vii) Power of the Company to surrender agreement,-Nil.
- (viii) Term of agreement [if not determined under (vi)] .- Not specified.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

Your,	Mileage open at end of each	Total capital out- lay, including sus- pense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings,	Nut carnings.	Percentage of not earnings on total capital outlay given in column (3).	or share of	Total income.	Percentage of total m- come on total capital outlay given in column (3).	Enruings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10	11
	Miles.	Re.	Rs.	Rs.		Fa.	Rs.		Rs.	
1908	34.50	10,52,939	1,49,043	58,588	5·56	-5,944	52,644	5:00	110	60°69
1909		14,20,827	1,73,715	69,303	4·88	-6,478	62,825	4:42	97	60° 45
1910		21,80,982	2,85,676	73,810	3·36	-671	72,656	8:33	88	68 89
1911 .	51.12	22,12,771	2,78,247	1,12,198	5·07	-6,3 56	1,05,842	4·78	105	59·67
1912 .		22,42,897	3,88,314	1,62,421	7·24	-23,668	1,3 8,7 53	6·18	127	51·99
1913.	51·12	22,46,018	90,886	38,007	1.69	-4,489	33.518	1'49	136	58·18
1918-14 .	51·12	23,08,116	3,28,574	1,36,598	5.91	-16,052	1,20,546	5'22	124	58·42
1914-15 .	52·24	23,99,927	3,48,960	1,33,617	5.56	-10,348	1,23,369	5'14	128	61·71
1915-16 .	52·24	23,80,575	3,74,430	1,52,380	6.40	-16,011	1,36,369	573	138	59·31
1916-17 .	52·24	23,81,789	3,57,024	1,35,415	5.69	-12,932	1,22,483	5·14	131	62:07
1917-18 .	52·24	23,85,399	3,08,313	92,778	8.88	-2,614	90,154	3·77	11 8	69:50

as to the con-

BARSI LIGHT RAILWAY (2' 6"gauge).

Chairman.—G. A. Anderson, Esq. Secretaries —W. A. Browne & Co.

Offices. - Winchester House, Old Broad Street, London, E.C. Date of registration of the Company .- 11th July 1895.

Progress in opening-

Sections of r	ail w	ay.						Date of opening.	Miles.	Total.	Grand total
1								2	3	4	5
Main line - Kurduyadi to Barsi Town .								1-3-97	21.59	- 21:59	
Extensions in British territory — Barsi Town to Kuslamb								15-6-95	6 34	. 21.03	
Kuslamb to Tadwale								1-5-06	20:36	00.00	
Kurduv.di to 1.73 miles from Pan	·lha	rpu r	Town				' . j	2-12-06	80.26	26.70	
1'78 miles from Paudharpur Town	to:	Pan-U	arpu	т.	wn			10-7-15	1.78		
Tadwale to Hyderabad Frontier								1-5-11	1.00	32:04	
Extension in Nizam's territory Hyderabad Frontier to Latue			,					1-5 11	35*87	1.00 35.87	
			GR	AND	тот	AI,	.		•••		117.50

Details of construction-

Per nanent-way.—The permanent-way consists of 35-lb, flat-footed steel rails on steel sleepers.

Ballast.—The line is ballasted with stone and moorum.

Fencing.—The line is unfenced, except at station yards and for a short distance on either side of level crossings and at a few bridges.

Curnes. The sharpest curve is of 125 feet radius.

Gradients.—The ruling gradient is 1 in 100. There are, however, two steeper gradients on the original line (from Kurduvadi Junction to Barsi Town) one of 1 in 89 and one of 1 in 89; and two or the Tadwale Extension-one of 1 in 50 and the other of 1 in 70.

Contracts and agreements-

Contract, dated the 1st August 1895, between the Secretary of State and the Barsi, Light Railway Company. as to the construction, maintenance and working of the line from Barsi Road Junction to Barsi Town (called "the Barsi Town railway"),

Contract, dated the 20th August 1902, between the Secretary of State and the Barsi Light Railway Company, as to the construction maintenance and working of "the Pandharpur extension" and "the Tadwale extension," as modified by letter from the Intia Office to the London Burd of the Burst Light.
Railway Company, No. P.W. 1020, dated the 22nd June 1904, extending to 1914 the term at the end of which the option of purchase of the Company's undertaking may be exercised by the Government under clause 59 of the contract.

Contract, dated the 28th May 1903 (supplemental to those of 1895 and 1902), between the Secretary of State and the Barsi Light Railway Company, as to the adoption of 1s. 4d. as the "prescribed"

of exchange.

Contract, dated the 4th December 1995 (supplemental to that of 1902), between the Secretary of State and the Barsi Light Railway Company, as to the construction, maintenance and working of the

Pandharpur and Tadwale Extensions, and for the issue of Debenture Stock.

Contract, dated the 31st March 1909 (supplemental to the contracts of 1902, 1903 and 1905), between the Secretary of State and the Barst hight Rullway Company, as to the construction, maintenance and working, and the inclusion in "the Tadwale Extension," of the railway from Tadwale to the frontier of the Hyderabad State (called "the Hyderabad Frontier Extension"), near Later in that State.

Agreement, dated the 21st April 1909, between the Government of His Highness the Nizam of Hyderabad

and the Barsi Light Railway Company, as to the construction, maintenance and working of a railway from the frontier of the Hyderabad State to Latur in that State, known as the Latur extension.

Agreement, dated the 4th May 1900, between His Highness the Nizam's Guaranteed State Railway

Company and the Barse Light Railway Company, as to the former waiving, in favour of the latter, its preferential right to construct and work the railway from the frontier of the Hyderabad State to Latur in that State, known as the Latur extension.

Contract, dated the 7th October 1913 (supplemental to the contracts of 1902, 1903, 1905 and 1909)

between the Secretary of State and the Barsi Light Roilway Company, as to the extension of the

Company's existing line from Barsi town to Pandharpur station on the north bank of the Bhima river to the town of Pandharpur.

Contract, dated the 24th February 1914 (supplemental to the contracts of 1895, 1902, 1963, 1905, 1909 and 1913) between the Secretary of State and the Barsi Light Railway Company, as to the adoption

of the Government Financial year for the purposes of accounts.

Contract, dated the 8th August 1916 (supplemental to the contracts of 1902, 1903, 1905, 1909, 1913 and 1914), between the Secretary of State and the Barsi Light Railway Company, as to the proposed construction and working of railways from Pandharpur to Lonand and Miraj.

Contract, dated the 19th September 1917 (supplemental to the contract of 1895), between the Secretary of State and the Barsi Light Railway Company, whereby the Company is leased in part from liability for maintenance and repair of provincial road on surrender of right to manage and appropriate collection of tolls on the said road.

Contract, dated the 16th October 1917 (supplemental to the contracts of 1895, 1902, 1903, 1905, 1909, 1913, 1914, 1916, and 1917), between the Secretary of State and the Barsi Light Railway Company by which (subject to certain reservations) the date for the first possible determination of the Company's contract for those portions of the line, which are in British territory, is extended from 1944 to 1954.

BARSI LIGHT RAILWAY (2' 6" gauge)-concld.

Main provisions of contracts and agreements-

(i) Land.—In the case of the main line the Company are allowed the use of part of the road between Barsi Town and Barsi Road Junction station, any land required outside the road being acquired, at the expense of the Company. For the extensions, land in British territory has been provided by the British Government; that in the Hyderabad State by the Government of His Highness the Nizam, free of cost to the Company.

(ii) Government aid .- Nil.

(iii) Distribution of profits. - The whole to go to the Company.

- (iv) Rates and fares.—Certain maxima have been fixed, within which the Company are permitted to vary their rates. On the Extensions the goods classification in force on the Great Indian Peninsula railway is to be adopted. In addition to the above, the Company shall be entitled to charge a pontage on passenger and goods traffic crossing the Bhima river subject to certain conditions.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.

 To be conveyed upon the extensions in charges thereof
 - (b) Government bullion and coin, and the persons in charge thereof.

 Sions in British territory at the same rates and fares, and on the same general conditions, as may be in force on State railways. On the main line, except services for the Postal Department which are rendered at the same rates and fares and on the same general conditions as may be in force on State railways, no special provision is made for the conveyance of troops police, high Government officials, etc. The Company have since agreed to carry Military traffic over the main line at the same rates and fares as are in force on the extensions under the special contracts relating to them (vide Agent's letter No. 1471, dated the 20th October 1917). On the extension in the Nizam's territory, mails and postal officials of the Nizam's covernment and the Government of India are carried free of charge. Troops, police, high Government officials, etc., of the two Governments are conveyed at special rates.
- (vi) Power of the Government to determine contract.—The Government may determine the contract on the 1st January 1944, or at the expiration of any subsequent period of 10 years, by giving 12 months' notice. But if the projected lines from Pandharpur to Lonand and Miraj respectively shall be duly constructed by the Company in accordance with the terms of the Contract, dated the Jeth August 1916, the first date on which the Company's contracts may be terminated shall be altered from the 1st January 1944 to the 1st January 1954. If the contract is so determined, the Government to pay the Company in England in sterling a sum such as, when added to any unspent capital, shall amount to the total paid up capital expended with the authority of the Government. His Highness the Nizam's Guaranteed State Railways Company have the option of purchasing the length of the line (excluding rolling stock, workshop machinery and stores) from the frontier of the Hyderabad State to Latur in that State, subject in all respects to the rights of the Nizam's Government under the agreement between His Highness' Government and the Barsi Light Railway Company and also under the several contracts between His Highness' Government and the Nizam's Guaranteed State Railways Company, after the expiration of 20 years from the date of its opening throughout for traffic, on giving 12 months' notice, at a price which shall be 5 per cent in excess of the actual capital expenditure. In the event of His Highness the Nizam's Guaranteed State Railways Company not exercising this right, His Highness the Nizam's Government have the right, on giving 12 months' notice to purchase the same line at any time after the expiration of twenty years from the date of its opening, at a price which shall be 5 per cent in excess of the actual capital expenditure.
- (vii) Power of the Company to surrender contract. Nil.
- (viii) Term of contract [if not determined under (vi)] .- Not specified.

Statistics of working. (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

Year.	M ileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net carnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	- 6	7	8
	Miles.	Ra.	Rs.	Rs.		Ra.	
1908 1909 1910	78:50 78:50 78:5 0	43,29,287 57,18,286 61,33,032	4,31, 002 6,44,77 5 6,97,520	1,72,063 3,89,578 3,89,427	3/36 6/82 6/52	105 158 174	1:0-08 1:9-58 44-18
1911 1912 let gr, of	115.84 115.84	68,96,322 70,14,477	7,44,733 10,31,325	3,98,677 5,66,671	5:79 8:08	124 171	46:44 45:05
1913 1913-14 1914-15 1915-16	115:84 115:84 115:84 117:50	70,09,214 71,46,903 79,83,731 85,69,232	3,09,586 13,18,678 11,17,797 10,66,669	1,86,976 8,46,882 6,28,070 5,98,646	2:67 11:85 7:87 6:96	206 219 196 175	89:60 85:38 48:81 44:05
1916-17 1917-18	117-50 117-50	95,47,194 86,02,814	11,24,923 8,60,524	6, 41,262 4,15,205	7·54 4·83	184 146	49·73 51·75

BENGAL PROVINCIAL RAILWAY SYSTEM

Lines comprised in the system-

The Bengal Provincial ratiway system is made up of-

(a) Bengal (b) Dasgha	Provincial railway (2' 6" gauge) ra-Jamalpurgunj railway (2' 6" gauge	· ,	:	:	:		:	:	:	:	Miles. 33:27 8:31
							Т	otal			41.28

Bengal Provincial railway (2' 6" gauge)-

Date of registration of the Company .- 1890.

Progress in opening-

•	Se	etion	n of a	railw	ay.						Date of opening.	Miles.	Total.
	 	-		1	1		 	 			2	3	•
Turkessur to Rudrani											7-11-94	12.20	
Rudrani to Magra .										. 1	8-3-95	18.62	
Magra to Tribeni .						٠				:	14-4-04	2.12	
								Тот	AT,	. !			33.3

Details of construction ---

Permanent-way.—The permanent-way of the main line consists of 30-lb. flat-footed steel rails laid for 10 miles on steel transverse sleepers and for the remainder on pynkado sleepers. The Tribeni extension is laid on sâl sleepers.

Ballast .- Sand and broken brick.

Fencing.—The line is partially fenced.

Curves .- The sharpest curve is of 716:25 feet radius.

Gradients.—The ruling gradient on the main line is 1 in 1,000; there are short gradients of 1 in 500 to 1 in 700 at bridge approaches; from the bridge under the East Indian railway to Magragunj station, the line is on a gradient of 1 in 350. The ruling gradient on the Tribeni extension is 1 in 500.

Agreements and Local Government order-

Agreement, dated the 16th October 1890, between the District Board of Hooghly and the Promoters of the Bengal Provincial Railway Company, scheduled to the order quoted below;

The Bengal Provincial Railway Company order, published under the Bengal Government, Railway Department, Notification No. 1, dated the 4th January 1896;

as to the construction maintenance and work ing of the line from Tarkessur to Magra.

Agreement, dated the 12th March 1904, helween the Secretary of State and the Bengal Provincial Railway Company, as to the construction, maintenance and working of the extension from Magra station to Tribeni bathing ghat on the Hocgbly river.

Main provisions of agreements and Local Government order-

- (i) Land.

 (ii) Government aid.

 provided by Government fee from rent or the extension from Magra station to Tribeni Ghât on the Hooghly river contents.
- (iii) Distribution of profits. The profits go to the Company.
- (iv) Rates and fares.—Certain maximum fares for passengers and maximum and minimum rates for goods traffic, combined with the General Classification of goods of the Indian Railway Conference Association, which are usual on Indian 5' 6" gauge railways, have been fixed. Full control over charges of all kinds is reserved to the Local Government.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, Postal officers and servants on duty.—To be conveyed at the rates and on the conditions in force from time to time on State railways.
 - (b) Troops, police, high Government officials and Government stores.
 (c) Government bullion and cain, and the persons in charge thereof.

BENGAL PROVINCIAL RAILWAY SYSTEM -concld.

Bengal Provincial railway (2' 6" gauge)-concld.

- Main provisions of agreements and Local Government order—concid.

 (vi) Power of the Local Authority to determine agreement.—In the event of the District Board of Hooghly wishing to purchase the railway at the end of 21 years after the date of the Government. order sanctioning the construction of the railway, or at the end of every 7 years thereafter, the promoters bind themselves to make it over at a price two-fifths in excess of the original capital
 - (vii) Power of the Company to surrender agreement .- Nil.
 - (viii) Term of agreement [if not determined under (vi)] .- None specified.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

Year. at end of one year.					at end of each year.	Total capital outlay, includ- ing suspense, to ond of each year, ie, outlay on (i) lines open and (ii) lines partly or wholly under innstruction	Gross carnings,	Net carnings.	outlay given in column (3).	Earnings per mile per week.	Preportion of expenses to carnings.	
	1	_			2	3	4	5	6	7	В	
					Miles.	Rs.	Rs.	Rs.	1	Ra.		
908		٠						20.40				
900					33.27	10,93,192	1,13,074	30,482	2.79	65	73.04	
1910					33.27	11,06,707	1,24,182	37,915	3143	72	69:46	
					38-27	11,32,454	1,24,373	43,085	3.80	72	65*36	
911						1		10.044			!	
912		. •		٠.	33.27	11,32,071	1,26,287	42,866	3.79	73	66.02	
st qr.		13			33.27	11,45,721	1,30,561	48,715	1.25	75	67.69	
913-14					33.27	11,53,264	34,171	11,585	1.00	79	66.10	
914-15					33 27	11,55,833	1,43,439	46,818	4.05	78	65.12	
					33.27	11,77,092	1,42,956	17,446	1.03	82	66 81	
915-16					33.27	11,85,224	1,40,725	44,784	3.78	81	68:18	
916-17				- 1	33.27	11,89,222	1,27,795	38,168	2-79	73	74.04	
917.18	Ċ			- 1	33.27	11,97,510	1,08,861	11,915	1.00	63	89 03	

Dasghara-Jamalpurgunj railway (2' 6' gauge;—
Sanction to the construction of this line by the Bengal Provincial Railway Company was conveyed in Railway Board's Notification No. 38, dated the 17th February 1915.

			JOU,					
F	ro	gr	886	in	or	en	in	g

Section of railway.	Date of opening.	Miles. Total.
Dasghara to Jamalpurgunj	1-9-17	8:31 8: 31

Details of construction-

Permanent-way.—The permanent-way consists of 30-lb, and 411-lb, flat-footed steel rails on sal sleepers,

Ballast .- The line is unballasted.

Fencing.—The line is unfenced.

Curces—The sharpest curve is of 955 feet radius.

Gradients .- The ruling gradient is 1 in 500.

Agreement—
The line has been constructed and is being maintained, managed and worked by the Bengal Provincial Railway Company under the terms of an agreement which is under consideration.

Year.	Mileage open at end of the year.	Total capital outlay its disulding suspense, to end of the year, A. e., Outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net carnings on total capital outlay given in column (8).	Earnings per mile por week.	Proportion of expenses to earnings.
1	2	3		5	6		8
1917-18 .	Miles. 8:31	Rs. 2,46,025	Rs. 5,003	Rs. 2,081	Rs. 0-83	20	5: 94

BUKHTIARPUR-BIHAR LIGHT RAILWAY (2' 6" gauge).

Date of registration of the Company .- 19th July 1901.

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.
1	2	3	4
Bukhtiarpur on the East Indian railway to Bihar Bihar to Silao Silao to Rajgir	1-7-03 17-7-09 1-11-11	18-50 9-50 5-00	
Total .	•••		38.00

Details of construction-

- Permanent-way.—The permanent-way consists of 30-lb. flat-footed steel rails laid on pynkado and sal sleepers, except for 5 miles, between Silao and Rajgir, which are laid with 25-lb. flat-footed rails on sal sleepers.
- Ballast.—The ballast consists of broken stone, except in the first few miles where a portion of the packing has been done with broken brick.

Fencing .- The line is unfenced.

Curves. - The sharpest curve has a radius of 260 feet.

Gradients.—The grades are easy, except at bridge approaches and up through the villages of Chero and Rajgir where the grade is 1 in 100.

Agreements and Local Government orders-

- Agreement, dated the 21st August 1899, between the District Board of Patna and Messes. Martin and Company of Calcutta, the Promoters, on behalf of the Bukhtiarpur-Bihar Light Reilway Company;
- The Bukhtiarpur-Bihar Tramway Company order published under the Bengal Government, Railway Department, Notification No. 100 R., dated the 25th June 1901;
- Agreement, dated the 16th August 1901, between Messes. Martin and Company of Calcutta and the Bukhtiarpur-Bihar Light Railway Company;
- As to the construction, maintenance and working of the Bukhtiarpur-Bihar Light railway.
- Agreement, dated the 17th February 1904, between the District Board of Patna and the Bukhtiarpur Bihar Light Railway Company, as to the use of land for a siding at Bihar.
- Agreement, dated the 2nd June 1908 (supplemental to the agreements of 1899 and 1901), between the District Board of Patna and the Bukhtiarpur-Bihar Light Railway Company;
- The Bukhtiarpur-Bihar Extension order published under the Bengal Government, Railway Department, Notification No. 11 R., dated the 15th June 1908;
- As to the construction, maintenance and working of the extension of the Bukhtiarpur-Bibar Light railway from Bihar to Silao.
- The Bukhtiarpur-Bihar-Rajgir extension order published under the Bengal Government, Railway Department, Notification No. 20 R., dated the As to the construction, main-14th November 1911;
- Agreement, dated the 28th November 1911 (supplemental to the agreements of 1899, 1901 and 1908), between the District Board of Palna and the Bukhtiarpur-Bihar Light Railway Company:
- As to the construction, maintenance and working of the extension of the Bukhtiarpur-Bihar Light railway from Silao to Rajgir.

Main provisions of agreements and Local Government orders -

- (i) Land.—The District Board of Patna grant to the Bukhtiarpur-Bihar Light Railway Company in perpetuity, subject to their right of purchasing the line [as in (vi) below], the free use of so much of the side portion of the District Board road between Bukhtiarpur and Raigir as is necessary, but not exceeding a width of eight feet, for the purpose of the railway; and promote the acquisition of any additional land required outside the boundary of the said road at the cost of the Company.
- (ii) Aid by the Local Anthority.—The District Board of Patna will recommend and apply to the Local Government either to exempt the Bukhtiarpur-Bihar Light Railway Company from the tax on account of road cess or to exact only a nominal tax for π period of twenty-one years from the date when the line is epened for traffic, with power of renewal. The Board also guarantee to supplement the net earnings of the Company by such annual subsidy as may be necessary to allow of the Company paying a dividend of 4 per cent per annum on their share capital, provided that the total liability of the Board on this account in any one year shall not exceed Rs. 32,000 or the sum of 4 per cent on the Companys' share capital.
- (iii) Distribution of profits.—Any surplus profits in excess of 4 per cent, after setting aside such sums as the Directors may decide, on the capital for the time being of the Railway Company, are to be equally divided between the District Board of Patna and the Company.

BUKHTIARPUR-BIHAR LIGHT RAILWAY (2' 6" gauge) -concld.

Main provisions of agreements and Local Government orders-concid.

- (iv) Rates and fares.—Certain maximum rates of fares for passengers and tariff of charges for goods have been fixed. Full control over charges of all kinds is reserved to the Local Government.
- (v) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Government officials and Government stores. -
 - (b) Government bullion and coin, and the persons in charge thereof.-
- (vi) Power of the Local Authority to determine agreement.—Upon the expiration of 21 years, from the date of the Local Government order authorising the construction of the line, or at the end of every seven years thereafter, the District Board of Patna have, by giving six months' previous notice, the right of purchasing the line by paying to the Company the value calculated at twenty years' purchase of the average net annual profits of the Company during the four years preceding the transaction together with a bonus of 20 per cent thereon.
- (vii) Power of the Company to surrender agreement .- Nil.
- (viii) Term of agreement .- None specified.

Statistics of working (Those for the periods prior to 1808 will be found in Appendix 38 to the Railway Administration Report for 1907)—

Year.	Miloage open at end of oach year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines partly or wholly under construction.	Gross earnings.	Net carnings.	Percentage of net earnings on total capital outlay given in column (3).	or share of surplus profits to, (), the	Total income feolumn 5 + or -	Percentage of total income on total enpital outlay given in column (3).	Earnings per mile per week.	охропаен
1	ñ	3	4	5	6	7	8	9	10	11
	Miles. 1	Rs.	Rs.	Rs.		Rs.	Rs.		Bs.	
1909 1909 1910	18:50 25:00 28:00	9,00,878 11,96,973 12,01,403	1,10,152 1,52,322 1,23,986	45,112 58,331 54,564	5.01 4.87 4.54	-1,915 -5,128 -3,121	48 207 53,133 51,143	4.80 4.44 4.85	114 128 85	59:04 61:70 55:99
1911 1912 1st qr. of 1913 1913-14 1914-15 1915-16 1916-17 1917-18	33:00 :3:00 :3:00 :3:00 :3:00 :3:00 :3:00 :3:00	12,38,725 12,63,209 12,72,539 13,11,472 13,59,590 13,59,656 13,59,598 12,83,955	1,34,135 2,49,976 36,364 1,58,559 1,65,932 2,31,282 1,56,949 1,96,825	62,381 1,42,235 7,099 46,537 60,280 1,09,188 62,192 84,388	5.04 11.26 0.56 3.54 4.43 8.03 4.57 6.09	-4,827 -20,464 +4,924 +13,879 -1,259 -9,306 -6,860 -7,373	57,554 1,21,771 12,923 60,416 59,021 99,882 55,332 77,015	4.64 9.64 0.94 4.61 4.84 7.35 4.07 5.56	78 145 85 92 97 135 91	53:88 43:10 80:48 *70:65 63:67 52:78 60:98 57:12

BURDWAN-KATWA RAILWAY (2' 6" gauge).

Date of registration of the Company-1913.

Construction of this line by the Burdwan-Katwa Railway Company was authorised in Railway Board's telegram No. 3711 R.C., dated the 30th December 1913.

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
1	. 2	3	4
Burdwan to Katwa	1-12-15	32:52	32 ·5 2

Details of construction .-

Permanent-way.—The permanent-way consists of 35 lbs. flat-footed rails laid on sal sleepers.

Ballast.—The line is ballasted with moorum, except in station yards and on open top bridge approaches where stone or brick ballast is being used.

Fencing .- The line is not fenced.

Curres.—The sharpest curve in station yards has a radius of 573 feet.

Gradients,-The ruling gradient is 1 in 200.

Contract-

Dated the 5th April 1917, between the Secretary of State and the Burdwan-Katwa Railway Company Limited, as to the construction, maintenance and working of the line.

Main provisions of contract-

- (i) Land. Provided by Government free of cost to the Company.
- (ii) Government iid.—

 (iii) Distribution of profils.—

 (iii) Distribution of profils.—

 (iii) Distribution of profils.—

 (iii) Distribution of profils.—

 (iii) Distribution of profils.—

 (iii) Distribution of profile.—

 (iii) Distribution of profile.—

 (iii) Distribution of profile.—

 (iii) Distribution of profile.—

 (iii) Distribution of profile.—

 (iii) Distribution of profile.—

 (iii) Distribution of profile.—

 (iii) Distribution of profile.—

 (iii) Distribution of profile.—

 (iii) Distribution of profile.—

 (iii) Distribution of profile.—

 (iii) Distribution of profile.—

 (iii) Distribution of profile.—

 (iii) Distribution of profile.—

 (iii) Distribution of profile.—

 (iii) Distribution of profile.—

 (iii) Distribution of profile.

 (iii) Distribution of profile.—

 (iii) Distribution of profile.

 (iii) Distribution of profile.—

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.—

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribution of profile.

 (iii) Distribut
- (iv) Rales and fares.—Rates and fares shall be such as may from time to time be sanctioned by the Socretary of State and the classification of goods shall be in conformity with that from time to time in force on State Railways of a similar gauge.
- (v) Special obligations as to the conveyance of mails, troops, police, etc.—To be conveyed in the same manner and subject to the same regulations and conditions as are in force on State Railways of similar gauge.
- (vi) Power of Government to determine contract.—The Secretary of State may at any time, by giving six months' notice, assume the working of the railway by State or any other agency, if the Company are guilty of any breach of contract, or gross mismanagement, or if the working expenses have exceeded the gross carnings for six consecutive half years.

BURDWAN-KATWA RAILWAY (2' 6" gauge) -coneld.

Main provisions of contract-

The Secretary of State may, by giving 12 months' previous "Notice of purchase" determine the contract either on the 31st March 1946 or on the 31st March in the last year of any subsequent period of ten years, paying to the Company a sum of money equal to 25 times the amount of the average of the yearly net earnings during the 3 years immediately preceding, but the amount so payable shall not exceed by more than 20 per cent the total capital expenditure or be less than such capital expenditure.

The Secretary of State may also by giving 12 months' previous "Notice of special purchass" determine the contract at any time in the following cases:—

- (a) When it is considered desirable that the gauge of the Railway should be altered.
- (b) When it is desired to convert the Railway into a line of through communication.
- (c) When it is desired to extend the Railway and the Company does not, within six months from date of formal requisition, raise such additional capital.
- If the Contract is determined by "Notice of special purchase" the Secretary of State shall pay the Company 25 times the average of yearly net earnings during the 3 years immediately preceding or 115 per cent of the total capital expenditure whichever may be greater.
- (vii) Power of the Company to surrender contract .- Nil.
- (viii) Term of contract .- Shall remain in force until determined under (vi) above.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital ontlay including suspense, to end of cach year, 'to, outlay en (1) lines open and (it) lines partly or wholly under construction.	Gross carnings.	Net earnings.	· · · · · · · · · · · · · · · · · · ·	Guaranteed interest re- coverable from Government.	Totai income,	Percentage of total iLcome on total capital outlay given in column (3).	Eurnings per mile per week	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10	11
-	Miles.	Rs.	Rs.	R					Ra.	
1915-16 . 1916-17 . 1917-18 .	32·52 32·52 32·52	17,26,605 17,81, 9 15 17,98,301	38,464 1,33,399 1,32,146	18,625 8,570 82,104	1.08 0.48 1.79	54, 329 62,300	62,799 94,40 i	3,52 5,25	93 78 78	51.57 93.57 75.79

176RB 56

CHAMPANER-SHIVRAJPUR-PANI LIGHT RAILWAY (2' 6" gauge).

Date of registration of the Company .- 30th March 1911.

This line was constructed by the Shivrajpur Syndicate, Limited, of Bombay, under the Indian Tramways Act, 1886 (XI of 1886). It was transferred to the Guzerat Railways Company, Limited, with effect from the 1st April 1915 and the Indian Railways Act, 1890 (IX of 1890), applied to it from the 23rd March 1916, when the tramway order, under which the line was constructed, was revoked.

Progress in opening-

	Sections of reliway.											Miles.	Botal.	Grand total.	
	1									2		4	5		
lain line-															
Champaner Road Juneti	on to	8hi	vrajp	uir.		٠.					24-1-11	17:11		1	
Shivrajpur to Ghanta											2-4-15	59.4			
Ghants to Nathpura											25-5-16	3-11		-	
Nathpura to Pani											15-11-16	4:47			
ranch—													30-63		
Shivrajpur to Shivrajpur	Min	168				•				٠.	24-1-11	1.77		1	
											1		1.77		
					Gı	LAND	тот	A L		•.				32-40	

Deficils of construction-

Permanent-way.—The permanent-way consists of 291-lb. steel rails on wooden sleepers.

Ballast .- The line is ballasted with heavy stone ballast.

Fencing .-- The line is unfenced except at station yards.

Curves .- The sharpest curve is of 716 feet radius.

Gradients.-The ruling gradient is 1 in 100.

Agreements-

Dated the 1st April 1915, between the Guzerat Railways Company, Limited, and the Shivrappur Syndicate
Limited, of Bombay, as to the transfer of the Champaner-Shivrappur Tramway, and its extension to
Pani, to the Guzerat Railways Company, Limited, and its inclusion, as from the 1st April 1915, in the
Guzerat Railways' system.

The agreement, between the Secretary of State and the Guzerat Railways Company, as to the terms of working, which will be much on the same lines as those for the Godhra-Lunavada Railway, is under preparation

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	1	Net carnings.	Percentage of net earnings on total capital outlay given in column (3).	Rebate from, (+), or share of surplus profits to ,(-), the Govern- ment of India.	Total in-	Percentage of total in- come on total capi- tal outlay given in column 3.	Earnings per mile per week.	Propertion of expenses to carnings.
1	2	3	4	5	6	7	8	9	10	И
	Miles.	Re.	R⊭.	Rs.		R.	Rs.		Rs.	
1911 .	20.24	9,02,929	64,061	15,545	1.72		15,545	1.72	61	75.24
1912 .	20.24	9,26,707	87,721	81,705	3.42		31,705	8:42	83	93.86
lat qr. of 1918,	20:24	9,27,947	82,759	18,158	1*95		18,153	1 95	124	4 \$ 59
1913-14 .	20-24	9,88,668	86,769	25,228	2.68		25,223	2.68	82	70-93
1914-15 .	20.24	14,08,254	64,064	176	0.01		174	9:01	61	99.78
1915-16 .	24-95	15,27,386	74,279	17,242	1.12	+ 30,483	47,675	3-16	58	76·7B
1916-17	32.40	16,87,579	95,325	27,919	1.71	+19,867	17,786	2.92	56	7071
1917-18	32.40	16,25,582	1,25,762	89,366	2-42	+ 40,416	79,812	4.91	74	69:70

CUTCH STATE BAILWAY (2' 6" gauge).

This line was sanctioned for construction at the cost of His Highness the Maharaja Maha Rao Sahib of Cutch, under the Government of India, Public Works Department, Notification No. 329, dated the 4th September 1903, and the Railway Board Notification No. 86, dated the 1st June 1905 and is maintained and worked by the Cutch Durbar.

Progress in opening-

	Sections of railway.												Date of opening.	Miles.	Total.	Grand fotal.	
1									3	8	•	5					
Tuns to Aujur													16 -5-0 5	11.67			
Anjar to Bhuj		•			٠	•	•	•	•	•	•	•	1-11-08	25.11			
							lota	L OP	nn m	ILBA	.ex		•••		36.78		
Unlus construc Anjar to Ba	rion shan	OR 8	tion	ri o ni ed on	20 uh	Nov	nem b	er 19	13)	•			•••	23.75	28.75		
							G	ran I	D TO 1	ra 1.				***	.,	60-1	

Details of construction-

Permanent-way. -- The permanent-way consists of 30-lb. flat-footed steel rails on helf-round teak sleepers.

Ballast .- The line is ballasted with stone.

Fencing .- The line is unfenced.

Curves .- The sharpest curve is of 359 feet radius.

Gradients.-The ruling gradient is 1 in 200 between Tuna and Anjar and 1 in 100 between Anjar and

Contract-

Nil.-The line is owned and worked by the Cutch Durbar.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 55 to the Railway
Administration Report for 1807.)—

¥ear.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net carnings.	Percentage of net carnings on total capital outlay given in column (8).	karnings por núle per woek.	Proportion of exponess to carnings.	
1	2	3	4	5	6	7	8	
	Miles.	Re.	Rs.	Rs.		Rs.		
908	36.78	8,74,980	40,006	19,237	2.07	20	54-41	
909	36-78	9,42,845	84,864	47,851	5.07	44	43.61	
910	86.78	9,42,842	93,639	\$5,953	5.93	. 19	40:24	
911	86.78	9,48,711	1,01,087	5 8,57 6	6-17	53	42-05	
912	36.78	16,08,788	1,01,790	\$6,663	5.61	53	44-67	
ist qr. of 1918	36.78	10,51,188	23,038	12,650	1.20	52	45:07	
1918-14	36-78	10,52,405	97,786	38,455	8·17	1 51	65:78	
1914-15	36 78	10,78,861	96,976	39,354	8-62	51	59.72	
915-16	86.78	10,92,726	1,05,271	52,745	₽ 82	55	49.69	
916-17	36.78	11,81,409	92,988	35,5 26	3-14	49	61-79	
917-18	86.78	11,48,615	58,800	9,471	0-83	81	88-69	

DEHRI-ROHTAS LIGHT RAILWAY (2' 6" gauge).

Date of registration of the Company-17th March 1909.

Progress in opening-

	Se	etion	of r	ailway	 			Date of opening.	Miles,	Total.
	••		1		 	 	 	2	8	4
Dehri-on-Sone to Robius .							•	6-2-11	28.88	28-83

Details of construction-

Permanent-way.—The permanent-way consists of 30-lb. steel rails on sal sleepers.

Ballast. - The whole line is ballasted.

Fencing .- The line is unfenced.

Curves .- The sharpest curve is of 477 feet radius.

Gradients.—The ruling gradient is 1 in 200, uncompensated.

Agreement and Local Government order-

Agreement, dated the 13th October 1907, between the District Board of Shahabal and Messrs. Octavins Steel and Company of Calculta (called "the Promoters") for and on behalf of the Dehri-Rohtas Trumway Company, scheduled to the order quoted below;

The Dehri-Rohtas Tramway Company order published under the Bengal Government, Railway Department. Notification No. 24 R., dated the 10th November 1908;

As to the construction, maintenance and working of the line, from Dehri-on-Sone to Rohtas.

Main provisions of agreement and Local Government order-

- (i) Land.—The line runs partly on Government land in charge of the Public Works Department and partly along the district road to Akbarpur. The District Board of Shahabad have granted to the Dehri-Rohtas Tramway Company in perpetuity, subject to their right of purchasing the line [as in (vi) below], the free use of so much of the side of the District Board road between Dehri and Rohtas as is necessary, but not exceeding a width of eight feet leaving a clear roadway of fourteen feet intact for ordinary wheeled traffic, for the purpose of the line, and have promoted the acquisition of any additional land required outside the boundary of the said road at the cost of the Company.
- (ii) Aid by the Local Authority.—The District Board of Shahabad will recommend and apply to the Local Government to exempt the Delri-Rohtas Tramway Company from the tax on account of road cess, or to exact only a nominal tax, for a period of twenty-one years from the date when the line is opened for traffic, with power of renewal.
- (iii) Distribution of profits. The profits go to the Company.
- (iv) Rates and fares.—Certain maximum rates of fares for passengers and tariff of charges for goods and the East Indian railway classification of goods, have been fixed. Full control over charges of all kinds is reserved to the Local Government.
- (*) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Government officials and Government stores.—
 (b) Government bullion and coin, and the persons in charge thereof.—
- (vi) Power of the Local Authority to determine agreement.—Upon the expiration of 21 years, from the date of the Local Government order authorising the construction of the line, or at the end of every seven years thereafter, the District Board of Shahabad have, by giving six months' previous notice, the right of purchasing the line by paying to the Company the value calculated at twenty years' purchase of the average net annual profits of the Company during the four years preceding the transaction together with a bonus of 20 per cent thereon.
- (vii) Power of the Company to surrender agreement .- Nil.
- (viii) Term of agreement [if not determined under (vi)] .- None specified.

Year.	Mileage open at end of each year.	Total capital outlay including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net earnings.	Percentage of net earn- ings on total capital outlay given in column (3),	Earnings per mile per week.	Proportion of expenses to earnings.
. 1	2	3	4	5	6	7	8
1911	Miles, 23-88 28-88 28-88 28-88 28-88 23-88 23-83 23-83	Ra. 5.82,474 5,51,080 5,81,830 6,15,474 6,26,523 6,27,568 6,83,158 6,70,823	Rs. 24,066 79,436 30,602 1,49,861 1,90,738 2,19,433 2,31,709 2,18,395	Rs, -12,291 34,810 17,380 93,912 1,30,990 1,48,953 1,58,246 1,89,089	6:31 2:89 15:25 20:89 28:73 29:29 90:74	8s. 21 64 99 120 152 176 187	151·07 56·17 43·20 37·35 31·35 82·11 31·70 36·26

DHOLPUR-BARI RAILWAY SYSTEM.

Lines comprised in the system...The Dholpur-Bari railway system is made uptof...

							M1108.
(a) Dholpur-Bari railway (2' 6" gauge)		•••	• •••	***	***	***	36.88
(b) Mohari-Barauli railway (2' 6" gauge)	***	***		•••	999	***	15.25
					Total		51.68

Dholpur-Bari railway (2' 6" gauge) .-

This railway was sanctioned for construction at the cost of His Highness the Rana of Dholpur, under Railway Board's Notification No. 267, dated the 14th December 1905, and is maintained and worked by the Dholpur Durbar.

Progress in opening-

Sections of mailway.	Date of opening.	Мйон,	Total.
1	2	3	4
Dholpur on the Midland section of the Great Indian Peninsula railway to Bari Bari to Baseri Baseri to Tantour	24-2-08 15-9-13 1-7-14	19:62 8:81 7:95	
TOTAL			36:38

Details of construction-

Permanent-way.—Five miles are laid with 35-lb. old steel rails on Indian State railway pattern steel trough sleepers; the remainder with 30-lb. new steel rails on Indian State railway pattern steel sleepers.

Ballast, -- The line is ballasted throughout with stone.

Fencing .- The line is not fenced.

Curves .- The radius of the sharpest curve is 1,432 feet.

Gradients .-- The ruling gradient is 1 in 200.

Contract ...

Nil.—The line is owned and worked by the Dholpur Durbar.

Statistics of working -(Includes the Mohari-Barauli railway from 1916-17).

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings,	ings.	Percentage of not earnings on total capi- tal outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	8	4	5	6	7	8
	Miles.	Rs.	Rs.	Rs.		Rs.	
1968 1909 1910	19·62 19·62 19·62	7,33,502 6,91,940 6,9 6,6 01	21,352 36,2 26 48,377	11,261 5,773 19,835	 0.83 2.85	, 25 35 47	152·74 84·96 58·99
1911 1912 1at qr. of 1918 1913-14 1914-15 1915-16 1916-17 1917-18	19·62 19·62 19·62 28·43 \$6·38 36·38 51·63 51·60	7, \$1,111 8,24,492 8,55,146 10,73,930 12,40,836 12,42,238 *12,41,848 *12,93,602	41,566 40,264 13,682 54,372 71,705 87,624 1,06,000 1,11,334	14,338 7,945 5,468 21,722 28,006 80,249 53,767 43,911	1·93 0·94 0·64 2·92 2·24 4·38 3·39	1 40	60°04 60°04 60°94 65°48 49°28

Mohari-Barauli railway (2' 6" gauge).-

This line was constructed by the Imperial Delhi Committee for the carriage of stone for New Delhi from Mohari to Barauli. In accordance with Foreign and Political Department Memorandum No. 172-I.B., dated he 14th February 1917, the line was taken over by the Dholpur-Durbar from the Committee on the 10th February 1917 for the carriage of passenger and goods, under the Indian Railways Act, 1890 (IX of 1890). Frogress in opening.

Section of railway.	Date of opening.	Miles.	Total,
. 1	2	8	4
Mohari to Barsuli	10-2-17	15-26	15-25

[.] Excludes the expenditure incurred by the Imperial Delhi Committee on the Mohari-Barauli section prior to its opening.

DHOLPUR-BARI RAILWAY SYSTEM-concld.

Mohari-Barauli railway (2' 6" gauge) -concld.

Details of construction-

Permanent-way. - The line is laid with 42-lb. second-hand flat-footed steel rails on sal sleepers.

Ballast .- The line is ballasted with stone.

Fencing .- The line is unfenced.

Curves .- The sharpest curve has a radius of 1,146 feet.

Gradients .- The ruling gradient is 1 in 200.

Agreement-

Dated the 14th April 1915, between the Dholpur Durbar and the Imperial Delhi Committee, as to the construction and working of the line.

Main provisions of agreement-

- (i) Land.—All waste land has been given free by the Durbar. In the case of cultivated land the Committee pur compensation for the use of the land and for any permanent deterioration due to the construction of the line.
- (ii) Government aid.—The line is the property of the Imperial Delhi Committee, and is managed, mainfained and worked by the Dholpur Durbar.
- (iii) Terms of working.—The Durbar undertake to carry the stone quarried for New Delhi to Dholpur at a special rate and in order to enable them to maintain a fixed rate of delivery the Committee agree to supply the Durbar with 2 engines and 40 wagons.

The Durbar have the right to work passenger and goods traffic free of charge on the line provided the transport of stone is not interfered with.

- (iv) Distribution of profits .- The whole of the profits to go to the Durbar.
- (v) Rates and fures.- The same as are in force over the Dholpur-Bari railway.
- (vi) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Government officials and Government stores—

 Nil.
- (b) Government bullion and coin, and the persons in charge thereof—
 (vii) Power of the Imperial Delhi Committee to determine agreement.—)
- (vii) Power of the Imperial Dethi Committee to aetermine agreement.—

 The agreement is to terminate when all the stone required for the Government buildings in New Delhi has been obtained. On the termination of the agreement the committee are to make their own arrangements for the disposal of the rails and rolling-stock, unless the Darbar are prepared to take them over.
- (ix) Term of agreement [if not determined under (vii) and (viii)] .- Nil.

Statistics of working-

Included under Dholpur-Bari railway.

FUTWAH-ISLAMPUR LIGHT RAILWAY (2' 6" gauge).

Date of registration of the Company .- September 1915.

The construction of this line by the Futwah-Islampur Light Railway Company was authorised in Railway Board's telegram No. 2011. dated the 24th September 1915.

Progress in opening-

Section of railway.	Date of opening.	Miles.	Zótal.
1	2	8	4
Future to Islampur (sanctioned on 24th September 1915)	· ···	27.00	27'00

GODHRA-LUNAVADA RAILWAY (2' 6" gauge).

Date of registration of the Company .- 30th March 1911.

The construction of this line by the Guzerat Railways Company was sanctioned by the Railway Board in their letter No. 731 R.C., dated the 13th March 1912.

Progress in opening-

	Secti	ons of railway.		Date of opening.	Miles.	Total.
The second of th		1		2	8	4
Godhra to Lunavada Boad	, .			4-12-13	24.00	
Lamavada Boad to Lunavada	· · .·			1-9-14	1.45	
			TOPAL			95:46

Details of construction-

Permanent-way.—The permanent-way consists of 30-lb. flat-footed rails on steel trough sleepers, I.S. R. pattern.

Ballast .- The line is laid on coarse and hard sand ballast, covered with quartz ballast.

Fencing .- Only certain station yards have been fenced.

Curves .- The sharpest curve has a radius of 600 feet.

Gradients .- The ruling gradient is 1 in 100.

Contract-

Dated the 30th April 1914, between the Secretary of State and the Gazerat Railways Company, as to the construction, maintenance, management and working of the line by the Guzerat Railways Company.

Main provisions of contract-

- (i) Land.—Land in British territory provided by the Government free of cost to the Company including land permanently or temporarily required for quarrying, ballast, brickfields and kindred purposes.
- (ii) Government aid.—The Government allow to the Railway Company in respect of each year by way of rebate, a sum not exceeding the net carnings from all traffic, except the earnings derived from the carriage of stores, interchanged between the Bombay, Baroda and Central India railway and this railway, as shall, together with the net earnings of the Company in respect of this railway, make up an amount equal to interest for the year at the rate of 5 per cent per aunum on the paid up share capital of the Company.
- (iii) Distribution of profits.—When the net earnings of the Company in any year exceed the minimum amount sufficient to give a return of 5 per cent per annum on the paid up share capital of the Company such excess is to be divided equally between the Government and the Company.
- (iv) Rates and fares,—Such as may from time to time be agreed upon between the Government and the Company and the classification of goods to be in conformity with that from time to time in force on State railways of the same gauge.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—

 (b) Government bullion and coin, and the persons in charge thereof.—

 To be conveyed at the same .ates and under the same arrangements as apply to State railways on the same gauge.
- (vi) Power of the Government to determine agreement.—The Government may, by giving twelve months' "notice of purchase," determine the contract on the 31st March 1914 or on the 31st March in the last year of any subsequent period of ten years.

GODHRA-LUNAVADA RAILWAY (2' 6" gauge) -concld.

Main provisions of contract-concld.

If the contract is determined by "notice of purchase" the Government shall pay to the Company 25 times the amount of the average net earnings (excluding payments on account of rebate) derived by the Company during the three years immediately preceding the time at which the contract shall be determined, subject to a limit of 20 per cent. in excess of, but not less than, the total capital expenditure of the Company.

The Government may also, by giving twelve months' "notice of special purchase," determine the contract at any time in the following cases:—

- (a) when it is considered desirable that the gauge of the railway should be altered;
- (b) when it is considered desirable to convert the railway into a line of through communication and
- (c) when it is considered desirable to extend the railway (without altering the gauge or making the line part of a through route), and the Company is unable or unwilling to supply the necessary capital for such extension.
- If the contract be determined by "notice of special purchase," the Government to pay to the Company 25 times the average net earnings (excluding payment on account of rebate) of the Company during the last preceding three years or 115 per cent. of the total capital expenditure of the Company, whichever may be the greater.
- (vii) Power of the Company to surrender contract .- Nil .
- (viii) Term of contract [if not determined under (vi).]-None specified.

Statistics of working-

Year.	Mileage open at ond of each year.	end of each year.	Gross enrnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).		income.	Percentage of total income on total capital outlay given in column (8).		Proportion of exponses to carnings.
1	2	3	4	5	6	7	8	9	10	11
1913-14 .	81.00	Re. 11,39,708	Rs. 13,299	Rs. 1,860	0.16		Rs. 1,860	0.16	Rs. 32	86.00
1914-15 .	25 45	13,02,936	45,407	4,528	0.34	+ 38,069	42,597	3.27	34	90-03
1915-16 .	25.45	12,90,052	52,312	-3,559		+ 66,906	68,347	4:91	39	106.80
1916-17 .	25.45	12,91,980	64,314	10,280	0.77	+ 53,019	63,299	4.90	49	84-02
1917 -18	25.45	12,97,473	54,500	-8,537		+ 67,241	63,704		41	108:49

176RB

JESSORE-JHENIDAH RAILWAY (2' 6" gauge)...

Date of registration of the Company .- 28th March 1911.

The sanction accorded by the Government of Bengal to the construction of this line under the Indian Railways Act, IX of 1800, was approved by the Government of India in their letter No. 275 R.P., dated the 2nd December 1910.

Progress in Opening-

	ectic	n+ 6 1	rail	way.						Date of opening.	Miles.	Total.
			1				 			2	3	4
Maia line- Jessore to Jhenidah						•				. 1-10-13	29.00	
Branch											!	
Kaliganj to Kot Chamlyur										1-10-13	7.75	
							To	· A T.				36.

Details of construction-

Permanent-way.—The permanent-way consists of 30-lb, flat-footed steel rails laid chiefly on sâl sleepers. Ballast.—The line is ballasted almost throughout with brick.

Fencing .- The line is unfenced.

Curves.—The sharpest curve is of 382 feet radius.

Gradients .- The ruling gradient is 1 in 150.

Contract and agreement-

Contract, dated the 26th May 1913, hetween the Secretary of State and the Jessore-Ihenidah Railway Company, as to the construction, maintenance and working of the line.

Agreement, dated the 26th May 1913, between the District Board of Jessore and the Jessore Ihenidah Railway Company, as to the grant of certain concessions to the latter by the former under certain conditions.

Main provisions of contract and agreement-

- (i) Land.—Land on one side of the District Board road not exceeding 8 feet in width granted free, any additional land being acquired by Government at the cost of the Company.
- (ii) Aid by the Listrict Board.—The District Board of Jessore guarantee to supplement the net earnings of the Company by such annual subsidy as may be necessary to make up a dividend of 4 per cent per annum on the Company's paid up share capital, provided that the total sum so payable by the Board shall not in any one year exceed the sum of Rs. \$2,000. The Board will recommend and apply to the Local Government for the exemption of the Company from road cess, or for the levy of only a nominal tax for a period of 21 years from the date of opening of the line for traffic.
- (iii) Distribution of profits.—Surplus profits of the Company in excess of 4 per cent on their paid up share capital are divisible between the Company and the District Board in equal shares.
- (iv) Rates and fares.—Rates and fares shall be such as may from time to time be arranged by the Secretary of State and the classification of goods shall be in conformity with that in force on State railways of the same gauge.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—

 (b) Government bullion and coin, and the persons in charge thereof.—

 To be conveyed in

the same manner and subject to the same regulations and conditions as are in force on State railways of the same gauge.

JESSORE-JHENIDAH RAILWAY (2' 6" gauge) -concld.

Main provisions of contract and agreement-coacid.

(vi) Power of the Government to determine contract.—The Government may, by giving 12 months' previous 'notice of purchase', determine the contract either on the 31st March 1943, or on the 31st December in the last year of any subsequent period of 10 years, paying to the Company 25 times the amount of the average yearly net carnings during the 3 years immediately preceding, provided that the amount payable to the Company shall not in any case exceed by more than 20 per cent, or be less than, the total capital expenditure of the Company.

The Government may also, by giving 'notice of special purchase', determine the contract at any time in the following cases:—

- (a) when it is considered desirable to alter the gauge of the railway;
- (b) when it is considered desirable to convert the railway into a line of through communication; and
- (c) when it is considered desirable to extend the railway (without altering the gauge or making the line part of a through route) and the Company is unable or unwilling to provide funds for such extension.

If the contract be determined by 'notice of special purchase' the Government will pay to the Company 25 times the average yearly net earnings during the 3 years preceding the purchase, or 115 per cent of the total capital expenditure, whichever may be the greater.

- (vii) Power of the Company to surrender contract .- Nil.
- (viii) Term of Contract [if not determined under (vi)] .- Not specified.

Year.	Mileage open at end of each year.		Gross earnings.	Net earnings.	Percentage of net carnings on total capital outlay given in column (3).	Subsidy from, (+), or share of net profits to, (-), the District Board.	income	Percentage of total income on total capital ontlay given in column (3).	Earn- ings per mile per week	Proportion of expenses to earnings.
1	2	8	4	5	6	7	8	9	10	11
	Miles.	Rs.	Rs.	Ba.		Ra.	Rs.		Rs.	
1913-14 .	36-80	12,33,610	49,667	12,145	0.58		12,145	96.0	52	75.55
19:4-15 .	36 80	12,49,383	77,508	-16,468		•			40	121.25
1915-16 .	36.80	12,80,742	94,740	-38,767					49	140-92
1916 17 .	36.80	13,49,378	1,10,699	-32,470		•			58	129-34
1917-18 .	36.75	13,96,544	88,775	-55,760		•	1		46	162 8t

The question of subsidy is under dispute.

KALIGHAT-FALTA RAILWAY (8' 6" gauge).

Date of registration of the Company .- April 1915.

The construction of this line by the Kalighat-Falta Railway Company was authorised in Railway Brard's telegram No. 1820, dated the 26th April 1915.

Progress in opening -

Section of railway	Date ef opening.	Miles.	Total.
1	2 '	3	14
Gholeshapur (near Kulighat) to Falta	28-5-17	25:33	25.33

Details of construction -

Permanent-way.--The permanent-way consists of 35-lb. flat-footed rails on sal sleepers.

Ballast.—Brick ballast has been largely used but on the independent banks cinder ballast has been provisionally laid down.

Foncing .- The line is unfenced.

Curves .- The sharpest curve is of 573 feet radius.

Gradients .- The ruling gradient is 1 in 200.

Contract_

The line was constructed and is being worked under the terms of a contract between the Secretary of State and the Kulighat-Falta Railway Company which is under consideration.

Year.	Mileage open at end of the year.	Total capital outlay, including suspense, to end of the year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net carnings.	Percentage of net carn- ings on total capital out- lay given in column (3).		Proportion of expenses to earnings.
1	2	3	4	5	ť	7	8
1917-18	Miles. 25'83	Rs. 17,36,978	Rs. 88,697	Rs. 20,146	1.16	Re, 80	77-99

KOLAR DISTRICT RAILWAY (2' 6" gauge).

The first section, from Bowringpet to Kolar, formerly known as the Bowringpet-Kolar railway, was constructed by the Mysore Durbar under anotion conveyed in Government of India, Foreign Department letter No. 3161-I.B., dated the 15th October 1912. It was financed entirely by the District Board of Kolar from the proceeds of a debenture loan. Later on as the District Board were unable to raise the entire capital for the whole line, from Bowringpet to Chik Ballapur, the cost was borne in equal proportions both by the Durbar and the District Board.

Progress in opening-

		1	Section	ons c	f rail	way.						e. Date of opening.	Miles.	Total.
				1			 					3	3	
Bowringpet to Kolar					•						•	15-19-13	10-65	
Kolar to Chintamani					•			•				6-8-16	29-59	
Chintemeni to Chik Be	llap	up					•					8-11-16	28-27	
							•		To:	TAL				63-51

.Details of construction-

Permanent-way.—The permanent-way consists of 411-lb. second-hand rails for 41 miles, and 411-lb. new rails, from the Tata Iron and Steel Company, for the remainder. The rails are laid on steel sleepers for 37 miles, and on wooden sleepers for 27 miles. teak, a small percentage being jalare and jambe.

Ballast.—The line between Bowringpet and Kolar is ballasted with sand and between Kolar and Chintamani boxed with good gravely soil. Between Chintamani and Chik Ballapur the ballast consists of moorum, except at bridge approaches where broken stone is used.

Fencing .- The line is unfenced.

Curves .- The sharpest curve is of 716 feet radius.

Gradients .- The ruling gradient is 1 in 100.

Agreement-

The line is maintained, managed and worked by the Mysore Durl between them and the District Board of Kolar which is under consideration.

Statistics of working-

	Y ear.			Mileage open at end of each year.	Total capital outlay, in- cluding suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construc- tion.	Gross earnings.	Net earnings.	Percentage of net carn- ings on total capital out- lay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
	1			2	8	4	5	6	7	8
1913-14 1914-15 1915-16 1916-17 1917-18		•	:	Miles. 10·92 10·92 40·71 68·51 63·51	Rs. 2,95,577 6,42,569 14,06,984 17,09,216 18,74,516	Rs. 7,598 36,093 47,918 1,05,098 1,56,758	Rs. -258 4,815 12,305 14,942 31,722	0·75 0·87 0·88 1·69	Rs. 43 64 28 82 47	103-38 86-66 74-93 85-78 79-76

176RB

MADAYA LIGHT RAILWAY (2' 6" gauge).

Date of registration of the Company .- 28th August 1906.

Progress in opening-

	Sections o	f ra	ilway									Date of opening.	Miles.	Total.
1 2											8	4		
Zegyo quarter of Mandalay to Obo to Toungbyon Toungbyon to Madaya	own to Ob	•:	:	:	:	:	:	:	:	:	:	10-2-12 25-7-12 22-5-17	3*40 4*90 7*70	
•	4				7	COTA	L OF	en m	ILEA	GE	•			160

Details of construction-

Permanent-way.—The permanent-way consists of 19-lb. and 24-lb. flat-footed steel rails laid on several varieties of local wood with some old stamped steel sleepers.

Ballast .- In most places throughout the line the ballast consists of brick rubbish.

Fencing .- The line is unfenced.

Curves .- The sharpest curve is of 286 feet radius.

Gradients.—The ruling gradient of the greater part of the railway is 1 in 1,000, except on the Zegyo-Obo section where it is 1 in 383 with a 1 in 100 banking section.

Local Government order -

Madaya Tramway order published under the Burma Government, Municipal and Local Department, Notification No. 22, dated the 13th February 1906, authorising the construction, maintenance and use of a system of tramways from Madaya in the district of Mandalay to the Obo quarter of Mandalay town.

Main provisions of Local Government order-

- (i) Land.—Land acquired at an annual track rent of Rs. 250 per mile for the first three years, and. Rs. 400 per mile thereafter, provided that no turnout or siding is liable to rent.
- (ii) Government aid .- Nil.
- (iii) Distribution of profits.—The whole of the profits belong to the Promoters.
- (iv) Rates and fares.—The minimum rate of fares for passengers has been fixed at half anna per mile. The charges for goods and for passengers' luggage to be fixed between the Promoters and the Local Government.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government Officials and Government stores.
 (b) Government bullion and coin, and the persons in charge thereof.
- (vi) Power of the Government to determine contract.—After the expiration of 42 years from the date of the order and within six months after the expiration of every subsequent period of ten years, the Deputy Commissioner, Mandalay district, with the previous sanction of the Local Government, may require the Promoters to sell to him the undertaking at a fair market value of all lands, etc., used for the purposes of the line.
- (vii) Power of the Promoters to surrender contract .- Nil.
- (viii) Term of contract [if not determined under (vi)] .- None specified.

	1	Total capital outlay, includ-			1	1	
Year.	Mileage op en at end of each year.	ing suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings en total capital outlay given in column (8).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	8	4		6	7	
1912 . lat gr. of 1918	Miles. 8:80 8:80	Re.	Rs.	Ba.		Rs.	
1918-14	8:30 8:30 8:30 8:30 16:00		not available.				

NADIAD-KAPADVANJ RAILWAY (2' 6" gauge).

Date of registration of the Company .- 30th March 1911.

The construction of this line by the Guzerat Railways Company was sanctioned by the Railway Board in their letter No. 546-R.C., dated the 28th February 1911.

Progress in opening-

Section of rail	way.				Date of opening.	Miles.	Total.
1	`		 		. 3	8	4
A point near Nadiad station to Kapadvanj	•	•	•		5-8-18	26-01	23-01

Details of construction-

Permanent-way.—The permanent-way consists of 30-lb flat-footed rails laid on steel trough sleepers, Indian State Railway pattern.

Ballast .- The line is ballasted throughout with heavy laterite.

Fencing .- The line is unfenced, except in station yards.

Curves .- The sharpest curve is of 716 feet radius.

Gradients .- The ruling gradient is 1 in 100.

Agreement-

Dated the 30th April 1914, between the Secretary of State and the Guzerat Railways Company, as to the construction, maintenance, management and working of the line by the Guzerat Railways Company.

Main provisions of agreement-

As noted under Godhra-Lunavada railway (2' 6" gauge).

Year.	end of	Total capital out- lay, including aus- pense, to end of each yoar, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (8).	surplus		Percentage of total in- come on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10	11
1st qr. of 1918 1918-14 1914-15 1915-16 1916-17	Miles, 27.86 27.86 27.86 27.86 28.01 28.01	Rs. 9,25,052 12,50,471 13,42,442 14,68,525 15,11,905 14,89,403	Rs. 6,871 1,02,727 1,19,495 1,88,696 1,44,523 1,57,709	Rs. 1,810 41,218 39,421 56,086 69,816 73,940	0-20 8-30 2-93 8-83 4-63 4-96	Re. +4,467 +16,026 +4,229 -812	Rs. 1,810 41,218 43,888 72,112 74,045 78,128	0*90 8.89 3*27 491 4*90 4*91	Re. 61 70 82 92 92 108	72°45 59°87 67°01 58°05 51°09 58°11

SHAHDARA (DELHI)-SAHARANPUR LIGHT RAILWAY (2' 6" gauge).

Date of registration of the Company .- 28th November 1905.

Progress in opening-

			1	Scoti	ons	of ra	ilwaj	7.							Date of opening.		Miles.	Total.
					1										2		8	4
Shahdara to Shamli Shamli to Saharanpur	•	•	•	•	•	:	•	•	•	:	:	:	:	-	7-5-07 15-10-07	}	92 .20	
											Тот	AL		١.	•••			92-56

Details of construction-

Permanent-way. - The permanent-way consists of 35-lb. flat-footed steel rails laid on sal sleepers.

Ballast .- The line is ballasted with stone and broken brick.

Fencing .- The line is partially fenced.

Curves.—The sharpest curve is of 1,910 feet radius.

Gradients.-The ruling gradient is 1 in 1,000, with some short lengths of 1 in 333.

Local Government order and agreement-

The Shahdara-Saharanpur Tramway Company order, published under the Government of the United Provinces of Agra and Oudh, Public Works Department, Railway Branch, Notification No. 339-187-R., dated the 18th April 1904;

Agreement, dated the 11th October 1905, between the Government of the United Provinces of Agra and Oudh and Messrs. Martin & Co. of Calcutta, called "the Promoters") for and on behalf of the Shahdara (Delhi)-Saharanpur Light Railway Company, published under the Gevernment of the United Provinces of Agra and Oudh, Public Works Department, Railway Branch, Notification No. 1863-R.-187, dated the 22nd November 1905 :

as to the construction,

Main provisions of Local Government order and agreement-

- (i) Land.— } The Local Government provide free of charge for the purposes of the Government aid.— } railway sufficient land for a single 5' 6" gauge line, together with land for all conveniences and works approved under clause 8 of the agreement. In addition to this the Company are authorised to use for the purpose of the railway, but not for the purpose of any building or erection connected therewith, portions not exceeding six feet in width of the local roads passing between Shahdara and Saharanpur.
- (iii) Distribution of profits.—Surplus profits in any year in excess of 4 per cent upon the paid up capital of the Company shall be divided equally between the Government and the Company; payments on account but subject to adjustment being made at close of first half-year.
- (iv) Rates and fares. Certain maximum rates of fares for passengers and maximum and minimum rates for goods in conjunction with the General classification of Goods have been fixed. Full control over charges of all kinds is reserved to the Local Government.
- (v) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Government Officials and Government store Nil.
 - (a) Government bullion and coin, and the persons in charge thereof.

SHAHDARA (DELHI)-SAHARANPUR LIGHT RAILWAY (2' 6" gauge) = concid.

Main provisions of Local Government order and agreement-concid.

- (vi) Power of the Government to determine agreement.—Upon the expiration of 21 years after the date of opening, or 23 years from the date of the Local Government order sanctioning the construction of the line, whichever is earlier, or at the end of every seven years thereafter, the Local Government have, by giving 12 months' previous notice, the right of terminating the agreement by paying to the Company the value calculated at 25 years' purchase of the average annual profits of the Company for the preceding three years, subject to a minimum of the capital expended and a maximum of 25 per cent in excess of that sum. In the event of its being determined to construct a railway on a different gauge in place of the tramway, and if the Government and the Company fail to agree that the alteration shall be made by the Company, then and in such case, the Government have the right to acquire the tramway at any time on giving 12 months' notice in writing and paying to the Company a sum 25 per cent in excess of its capital expenditure,
- (vii) Power of the Company to surrender agreement .- Nil.
- (viii) Term of agreement [if not determined under (vi)].-None specified.

Statistics of working (Those for 1907 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

Year.	Mileage open at and of each year.	Total espital outlay, including suspense, to end of each year, i.c., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net earnings.	Percentage of net earn- ings on total capital outlay given in column (8).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	8	4	5	6	7	8
1908 1909 1910	Miles. 92.68 92.63 92.50	Bs. 41,35,292 41,56,390 41,67,317	R.s. 3,35,583 4,05,856 5,04,282	Ba. 1,41,823 1,96,014 2,78,330	3·43 4·71 6·67	Rs. 70 84 105	57·73 51·70 41·90
1911	92·50 92·50 92·50	42,16,557 42,51,039 42,69,811	5,92,292 6,10,763 1,93,252	3,10,746 3,54,779 1,26,997	7-87 8-34 2-97	110 126 160	41·61 41·87 84·28
1918-14 1914-15 1915-16 1916-17 1917-18	92·50 92·50 92·50 92·50 92·50 92·50	43,42,552 43,89,762 44,16,947 44,11,392 44,63,101	6,17,500 6,48,190 5,49,909 6,68,824 7,15,494	3,48,514 3,57,708 2,80,278 3,92,996 3,70,892	8·02 8·14 6·34 8·90 8·31	128 134 114 189 148	48:53 44:76 49:03 41:38 48:17

EZPORE-BALIPARA LIGHT RAILWAY (2' 6" gauge).

Date of registration of the Company .- 2nd October 1893.

This line was authorised for construction under the Indian Tramways Act, 1886, by the Hon'ble the Chief Commissioner of Assam on the 1st June 1895. On the 3rd May 1898, the Indian Railways Act, IX of 1890, except section 135, was applied to the line.

A tramway, 2 miles long, was constructed at the expense of the Borjuli Tea Company connecting the Borjuli Tea Factory with Rangapara station on the Tezpore-Balipara Light railway. It was worked by the Tezpore-Balipara Light railway but from February 1908 has been closed to public traffic.

Progress in opening-

7		Sec	tione	of 2	ailw	ay.							Date of opening.	Miles.	Total,
				_1					 				2	8	
Tezpore Ghat to Bindukuri Bindukuri to Balipara			:	:	:	:	:	:	:	:	:	:	9-8-94 1-9-95	8·10 12·00	
	`								 	Тот	A L				20.10

Details of construction-

Permanent-way.—The permanent-way consists of 30-lb. flat-footed steel rails on Nahor or Gonserai sleepers. Ballast .- The line is unballasted.

Fencing.—The line is fenced only at stations.

Curves.—In the first mile there are two curves with radii of 500 feet.

Gradients .- The ruling gradient between Tezpore and Rangapara, 16 miles, is 1 in 125 and between Rangapara and Balipara, 4 miles, 1 in 100.

Local Government order-

Chief Commissioner of Assam, No. 33, dated the 1st June 1895, as to the construction, maintenance and working of the line.

- Main provisions of Local Government order-(i) Land.—Provided at the cost of the Company, other than that which is not held under decennial puttus or where the holders have not acquired land-holder's rights, provided free of cost. Free use of one side of a provincial or local road is authorised for the purpose of laying the line only.

 (ii) Government aid.*—Supply, free of royalty, of timber for sleepers from Government forests for the
 - first construction of the line only, and a payment by the Texpore Local Board, of a subsidy of Letter from the Hou ble the Chief Commissioner of Assam, No. 3720, dated the 10th November 1893.
 Government of India. Public Works Department, Rs. 5,000 per annum up to the end of March 1914. letter No. 139 R.C., dated the 2nd February 1894.
 Railway Board's letter No. 342 R.T., dated the 22nd February 1909.

(iii) Distribution of profits.-The whole of the profits belong to the Company.

(iv) Rates and fares .- Certain rates for carriage of passengers and goods have been fixed, but the full control over charges of all kinds is reserved by the Chief Commissioner.

(v) Special obligations as to the conveyance of-

(a) Mails, Postal Officers and servants on duty. - Conveyed at the rates and on the conditions in force from time to time on State railways.

(b) Troops, police, high Government Officials and Government stores Nil. (c) Government bullion and coin, and the persons in charge energof.

(vi) Power of the Government to determine contract .- After the line has been opened for 15 years and thereafter at terms of 7 years each, the Government, by giving 12 months' previous notice, have the It has since been decided not to give notice of purchase to the Company on the 1st September 1909 and to defer purchase. right to terminate the contract and take over the [Telegram from the Government of Eastern Bengal and Assam, No. 801-R., dated the 22nd July line by paying to the Company the value of the

property as a dividend-earning investment together with a bonus of 20 per cent over and above such value.

(vii) Power of the Company to surrender contract.—Nil.

(viii) Term of contract [if not determined under (vii)].—None specified.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under con- struction.	Gross earnings.	Net earn- ings.	Percentage of net earn- ings on total capital outlay given in column (3).	from	Total	Percentage of total income on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	- 8	9	10	11
	Miles.	l .	Rs.	Rs.		Rs.	Rs.		Rs.	
1908 . 1909 . 1910	20·10 20·10 20·10	4,87,240 4,87,240 4,87,240	88,990 85,964 94,015	20,972 23,618 25,945	4:30 4:84 5:82	5,000 5,000 5,000	25,972 28,618 30,945	5·38 5·87 6·35	86 84 90	76:48 \ 72:58 72:40
1911 : 1912 :	20·10 20·10	4,87,240 4,87,240	1,14,875 1,20,685	81,892 34,709	6·54 7·12	5,000 5,000	36,89 <u>2</u> 39,709	7·57 8·14	110 116	72-95 71-98
1st qr ef 1918. 1918-14. 1914-15. 1915-16 . 1917-18	20°10 20°10 20°10 20°10 20°10 20°10		27,879 1,84,688 1,35,559 1,41,901 1,47,201 1,88,069	4,035 40,489 86,620 44,461 46,561 80,048	0.83 8.81 7.51 9.12 9.55 6.16	5,000	4,035 45,489 36,620 44,461 46,561 30,048	0.88 9.33 7.51 9.12 9.55 6.16	129 '105 136 139 141 126	85-96 69-98 72-96 68-64 66-87 77-48

DARJEELING-HIMALAYAN RAILWAY SYSTEM.

Total

Darieeling Himalayan Railway (2' 0" gauge)-

Date of registration of the Company .- 1879.

Progress in opening --

		Sec	tio	ns of	railv	vay.								Date of opening.	Miles.	Total.
						1								3	3	
Siligari to Kurseong . Kurseong to Sonada			•	:	:				•	:		.•	•	23-8-80 1-2-81	31-75 9-80	
Sonada to Ghum. Ghum to Darjeeling Darjeeling to Darjeeling				•	٠	•	:	:	••	:		:		4-4-81 4-7-81 16-6-85	5·87 3·63 0·25	
Darlesting to Darlesting	, L			•				`•		•	Tor	A T.	·	10-0-83		51.00

Details of construction-

Permanent-way. - The line is laid throughout with 414-lb. flat-footed steel rails on wooden sleepers. These are being renewed with a special section steel rail, 41; lbs. to the yard, as required.

Ballast .- For 9 miles from Siliguri the line has been ballasted with gravel or broken stone, except near Siliguri, where sand has been used. On the hill section, where necessary, broken stone ballast has been put in.

Fencing .- The line is unfenced.

Curves .- The sharpest curve has a radius of 60 feet.

Gradients,-The ruling gradient of the greater part of the line is about 1 in 25; from Sukna to Chum (summit) and thence to Darjeeling there is a length of about three-fourths of a mile on grades of 1 in 221 to 1 in 23, uncompensated, with short lengths of 1 in 20.

Contract and agreement-

Contract, dated the 5th April 1879, between the Secretary of State and the late Mr. Franklin Prestage, as to the construction, maintenance, management and working of the railway.

Agreement, dated the 24th January 1918, between the Secretary of State and the Darjeeling-Himalayan Railway Company, providing for the exclusion from the Company's capital of the preference shares raised for buying up the shares of the Darjeeling-Himalayan Railway Extensions Company for the purposes of clause 16 of the contract of 8th April 1879.

Main provisions of contract and agreement-

- (i) Land.—Government land, and the right to use the existing cart road, to be granted to the Company free of cost. Other land necessary, if any, to be acquired by the Government and transferred to the Company at cost price.
- (ii) Government aid.—The Government undertake to pay to the Company any sum required to make up its gross receipts to two lakhs of rupees annually.
- (iii) Distribution of profits. After the first five years half the net profits of any year in excess of 5 per cent on the paid up capital to be applied in repayment to the Government of the amount expended on the maintenance of the cart road during the same year, or in making good a deficiency in gross receipts.
- (iv) Rates and fares.—Certain maxima have been fixed within which the Company is permitted to vary rates and fares.
- (v) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Government Officials and Government stores.—Mails and Post office servants to be carried by the Company in consideration of a payment by the Government of Rs. 10,260 yearly. [No special provision exists as to troops, police, high Government.] ment Officials and Government stores.]
 - (b) Government bullion and coin, and the persons in charge thereof.—None specified.
- (vi) Power of the Government to determine contract.— } If at any period the railway should not be (vii) Power of the Company to surrender contract.— } worked for six consecutive months, the Com-(vii) Power of the Company to surrender contract .pany is to surrender the road and land acquired from the Government, receiving any sum due to it for permanent improvements to the road or works connected with it.
 - After the railway has been opened for 25 years (reckoning from the 4th May 1884), and thereafter at intervals of 10 years, the Government have the power, by giving 12 months' previous notice to terminate the contract and take over the line on payment to the Company of its value as a dividend-earning investment, with an additional bonus of 20 per cent over and above such value.
 - Noze.—Government relinquished the right to terminate the contract at the end of the 26th year, and decided to allow the terms and conditions of the contract, of the 8th April 1879 to continue for a further period of 10 years, single May 1919 and Hailway Board's letter No. 1412 E. T., dated the 1st August 1908, to the Scoretary to the Government of Ballway Department.

DARJEBLING-HIMALAYAN RAILWAY SYSTEM-contd.

Darjeeling Himalayan railway (2, 0" gauge)-concld.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Government share of surplus profits.	Total income (column 5—column 7).	Percentage of total income on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10	11
1908 . 1909 . 1910 .	Miles. 51.00 51.00 51.00	Rs. 97,47,327 37,72,667 37,94,440	Rs. 9,44,452 9,89,125 10,03,569	Rs. 4,21,454 4,39,895 4,41,931	11:24 11:66 11:65	Rs. 66,162 88,395 90,653	Rs. 3,55,292 8,51,500 3,51,278	9·48 9·81 9·26	Ba. 356 378 378	55:38 55:52 55:96
1911 . 1912 .	51·00 51·00	38,51,682 89,25,147	10,29,802 11,38,900	4,44,286 5,11,268	11 ⁻⁵³ 18-02	91,435 98,475	3,52,801 4,12,793	9·16 10·52	388 429	56·86 55·11
1st qr. of 1918.	51.00	39,55,640	2,43,409	87,282	2.21	14,849	72,438	1.83	367	64:15
1913-14 1914-15	51.00 51.00	40,76,057 48,01,731	11,98,789 11,35,682	5,01,315 4,69,576	12:80 10:91	1,08,006 97,675	8,93,309 8,71,901	9·65 8·64	452 428	58·18 58·65
1915-16 1916-17 1917-18	21.00 21.00 21.00	43,62,976 44,72,697 46,06,491	11,89,696 13,01 592 12,87,179	4,99,218 4,48,832 4,56,767	11:44 10:08 9:92	1,06,612 95,565 97,089	3,92,606 3,53,267 3,59,678	9·00 7·90 7·81	449 491 485	58·04 65·52 64·51

Darjeeling Himalayan railway extensions (2' 0" gauge)-

Date of registration of the Company .- 20th January 1913.

The construction of this line by the Darjeeling-Himalayan Railway Company for the Darjeeling Himalayan Railway Extensions Company was authorised by the Railway Board in their telegram No. 251-R.C., dated the 6th February 1913.

Progress in opening-

Sections of milway		Date of opening.	Miles.	Total,	Grand total		
1				2	3	4	5
Kissengunge extension -				16-8-14			
Panchanai to Matigara Matigara to Naksalbari	•••	•••	:::	1-2-15	2 10	-	1
Naksalbari to Talabpur	•••	•••	1	1-5-15	2 4 25		ļ
Talabpur to Islampur-Aluabari	***	***		1-11-14	8-60	•••	(
Islampur-Aluabari to Kissengunge	***	•••		15-6-14	19.25		1
			- 1	! -		66.85	ì
Teceta Valley extension— Siliguri to Sivoke				16-3-14	12.75		1
Sivoke to Rivang	***	***	***	1 5-15	11.75	•	1
Sivoke to Riyang Riyang to Kalimpong Road	***	•••		21-9-15	4.59		1
						29:09	ĺ
·		TOTAL			1		95:44

Details of construction-

Permanent-way.—The permanent-way consists of 40-lb. British standard section steel rails with small length of older types of 40-lb. rails, laid on sal sleepers.

Ballast.-The line is ballasted with sand; but broken stone is being laid.

Fencing .- The line is unfenced.

Curves.—The sharpest curve on the Kissengunj extension is of 100 feet radius and that on the Teesta.

Valley extension, of 80 feet radius.

Gradients.—The steepest gradient is 1 in 100 on the Kissengunge extension and that on the Teesta Valley Extension, 1 in 50.

Contract-

Dated the 25th April 1914, between the Secretary of State and the Darjeeling Himalayan Railway Extensions Company, us to the construction, maintenance and working of the Darjeeling Himalayan Railway Extensions by the Company.

DARJEELING-HIMALAYAN RAILWAY SYSTEM-concid.

Dariesling Himalavan railway extensions (2' 0" gauge)-concld.

Main provisions of contract-

6) Land .- Land in British territory provided free of cost to the Company. The Company is also permitted to make such use of any roads for the purposes of the extensions as the Governments of Bengal and Bihar and Orissa may authorise.

(ii) Government aid.—The Government allow to the Company, in respect of each year, by way of rebate, such a sum not exceeding in any year the net earnings of the Eastern Bengal railway, exclusive of earnings derived from the carriage of revenue stores, from traffic originating or terminating on the extensions, as shall, together with the net earnings of the Company or with half the gross earnings after deducting from such half the sum of Rs. 15,000 payable on account of expenses of management, whichever is more, make up an amount equal to interest for the year at a rate of 5 per cent per annum on the actual expenditure charged in the capital account.

(iii) Terms of working .- The extensions are worked by the Darjeeling Himalayan Railway company at 50

per cent of their gross earnings.

(iv) Distribution of profits.—When the net carnings of the Company shall exceed the minimum amount sufficient to pay a dividend of 5 per cent per annum such excess shall be divided equally between the

Secretary of State and the Company,

(v) Rates and fares. - The rates and fares for the carriage of goods and passengers shall be such as may from time to time be arranged between the Secretary of State and the Company and the classification of goods thereon shall be in conformity with that from time to time in force on State railways of a similar gauge; provided that the maxima rates and fares for the Kissengunge extension will be double, and the minima rates and fares the same as those permissible on the Eastern Bengal railway; and that the maxima rates and fares for the Teesta Valley extension will be those stated in schedule A attached to the contract, and the minima rates and fares the same as those fixed for the Western Extension of the Bengal Dooars railway.

(vi) Special obligations as to the conveyance of.

(a) Mails, troops, police, high Government officials | and Government stores.

as are usually performed by state railways of a (b) Government bullion and coin and the persons | similar gauge in the same manner and subject in charge thereof. I to the same regulations and conditions as to rates

The Company shall carry out all such services

and otherwise as are for the time being in force on such railways.

(vii) Power of the Government to determine contract.—The Government may, by giving "notice of purchase," determine the contract, either on the 31st March 1946 or on the 31st March in the last year of any subsequent period of 10 years, by paying to the Company 25 times the amount of the average of the yearly net earnings (excluding payments on account of rebate) of the Company during the 3 years immediately preceding, but so that the total amount so payable to the Company shall not in any case exceed by more than 20 per cent, or be less than, the total capital expenditure of the Company.

The Government may, by giving "notice of special purchase," determine the centract at any time

in the following cases :-

(a) when it is considered desirable to alter the gauge of the railway;

(b) when it is considered desirable to convert the railway into a line of through communication; and (c) when it is considered desirable to extend the railway (without altering the gauge or making the

line part of a through route) and the Company is unable or unwilling to provide funds for such extension. If the contract be determined by "notice of special purchase" the Government will pay to the

Company 25 times the average yearly net earnings during the 3 years preceding the purchase, or 115 per cent of the total capital expenditure, whichever may be the greater.

(viii) Power of the Company to surrender contract .- Nil.

(ix) Term of contract [if not determined under (vi)] .- None specified.

Year.	Mileage open at end of each year.	Total capital outlay, including suspense to end of each year, i.e., ontlay on (i) lines open sed (ii) lines partly or wholly under construction.	Gross earnings.	Net earn- ings.	capital outlay given in column (3).		Total income.	Percentage of total income on total capital outlay given in column (8).	Earn- ings per mile per week.	Proportion of expenses to earn-
1	9	8	4	5	/ 6	7	8	, 9	10	11
1918-14 . 1914-15 . 1915-16 . 1918-17 . 1917-18 .	Miles. 14'28 53'62 95'14 95'44 95'44	Rs. 23,94,811 } 39,87,888 } 45,66,968 51,10,296 58,77,644	1,61,788 8,22,929	Rs. rmation 80,894 1,66,464 1,88,991	not available. 1.77 3.36 3.46	Rs. + 40,780 + 1,04,080 + 97,891	2,70,514	 2·61 5·29 5·26	Ba. 65 67 75	50-00 50-00 50-00

GWALIOR LIGHT RAILWAY (2' 0" gauge).

Progress in opening-

Section	ns c	of rai	lway			Date of opening.	Miles.	Total.	Grand total.			
		1							2	. 8	•	3
Iwalior-Sipri section — Gwalior to Sipri Iwalior-Bhind section—									2-12-99	78-81	78-81	
Gwalior to Bhind . lwalior-Sheopur-Kalan section	<u>.</u>	•				1			2-12-99	52-83	52.88	
Gwalior to Jora Alapur . Jora Alapur to Sabalgarh	-	:	:	:	:	:`		:	1-1-04 1-12-04	31.84 26.05		
Sabalgarh to Birpur Birpur to Sheopur Kalan	:	:	:	:	٠:	:	:	:	1-11-08 15-6-09	19·55 46·88	128-62	
			G	ran)	n To	PAT.			,		125-82	249-96

Details of construction-

- Permanent-way. The permanent-way consists of 30-lb. flat-footed steel rails, laid on sal and steel trough
- Satelast.—The line is fully ballasted throughout with broken stone, sand and moorum.

 Fencing.—The line is not fenced.

- Curves.—The sharpest curve in station yards has a radius of 147 feet. The sharpest curve out of stations has a radius of 287 feet.
- Gradients.—The ruling gradient is 1 in 40 on the Gwalior-Sipri section, 1 in 80 on the Gwalior-Sheopur Kalan section and 1 in 150 on the Gwalior-Bhind section.

Agreement-

Nil. The Gwalior Light railway is the property of the Gwalior Durbar by whom it was constructed and is maintained, stocked and Main provisions of agreementworked. The working of the trains and traffic of the line was under the control of the Great Indian Peninsula Railway Company up to the 30th June 1913.

Statistics of working. (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

	Mileage open at each oach year.				open at end of each	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings,	Percentage of net carnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
		1			2	3	•	5	6	7	8
	-				Miles.	Bs.	Rs.	Rs.		Ra.	
1908 1909 1910	:	:	:	:	249·96 249·96 249·96	66,13,092 68,19,209 68,57,494	2,61,725 2,52,587 3,69,295	99,262 85,068 1,74,444	1·50 1·25 2·54	25 20 28	62·07 66·32 52·76
1911 1912 1st qr 1913-1- 1914-11 1916-11 1916-11	6 8 7	1918	:	•	249-96 249-96 249-96 249-96 249-96 249-96 249-96 249-96	67,47,029 67,67,204 67,71,609 69,114,901 72,26,667 74,68,961 75,58,323 75,91,801	4,05,871 5,13,976 1,42,494 5,14,118 5,81,298 5,85,642 5,02,685 6,57,784	1,71,420 2,27,870 1,00,594 2,20,130 2,16,515 2,55,475 2,80,991 3,58,162	2:54 3:37 1:49 3:18 3:00 3:42 3:72 4:72	31 40 44 89 41 45 43 50	57'76 55'67 29'40 57'18 59'25 56'88 50'66 45'55

HOWRAH-AMTA LIGHT RAILWAY (2' 0" gauge).

Date of registration of the Company .- 2nd May 1895.

Running powers-

Foreign line over home line-

Howrah-Sheakhala Light railway, Telkul Ghat to Kadamtala (for passenger and goods trains), 200 miles.

Progress in opening -

Sect	non	Date of opening.	Miles.	Total.									
1											2	3	4
fain line -												`	
Telkul Ghât (Howrah) to Dum Dumjur to Bargachia Bargachia to Maju Maju to Amta	jor :	:	:	:	:	:	:	:	:		1-7-97 2-10-97 4-8-98 1-6-96	9·20 5·87 5·50 6·62	27*
hampadanga branch—			•							- }			***
Bargachia to Jagatbalabpur Jagatbalabpur to Autpur Autpur to Champadanga		:	:	:	:	:	:	:	:	:	3-10-97 1-6-04 24-8-08	1.20 8.20 6.08	16*
						To	FAL			.			48

Details of construction -

Permanent-way.—The permanent-way consists of flat-footed steel rails, 25 lbs. to the yard, on cross sleepers of pynkado on the sections from Maju to Amta. The line from Bargachia to Champadanga and Bargachia to Maju is laid with steel rails 30 lbs. to the yard. The remainder of the line is relaid with steel rails 35 lbs. to the yard.

Ballast.-The line is ballasted throughout.

Fencing .- The line is unfenced.

Curves.—The sharpest curve, sanctioned specially for the town of Howrah, has a radius of 144 feet.

Gradients.—The line is practically level throughout.

Agreements and Local Government orders-

- Agreement, dated the 12th June 1889, between the District Board of Howrah and Messis. Walsh, Lovett and Company on behalf of the Bengal District Road Transays Company, as to the grant of a concession to the Company of the right to construct and work a transay over a portion of the road within the jurisdiction of the Board.
- Agreement, dated the 27th September 1889, between the Municipal Commissioners of Howrah and Mossrs.

 Walsh, Lovett and Company on behalf of the Bengal District Road Tramways Company, as to the grant of a concession to the Tramways Company of the right to construct and work a tramway over a portion of the road within the jurisdiction of the Commissioners.
- Bengal District Road Tramways Company order published under the Bengal Government, Public Works
 Department, Notification No. 111, dated the 28th March 1895, authorising the construction of a
 tramway from Howrah to Amts.
- Agreement, dated the 3rd May 1897, between the District Board of Howrah and the Bengal District Road Tramways Company (Howrah-Amta), in amendment of the agreement of 12th June 1889.
- Agreement, dated the 16th August 1901 (supplemental to the agreements of 1889 and 1897), between the District Board of Howrah and the Howrah-Amia Light Railway Company, as to the construction and working of an extension from Jagatbalabpur to Champadanga.
- Howrah-Amta Extension order published under the Bengal Government, Railway Department, Notification No. 75-R., dated the 7th April 1902, authorising the construction of the extension from Jagathalabpur to Champadanga.

HOWRAH-AMTA LIGHT RAILWAY (2' 0" gauge) -concld.

Main provisions of agreements and Local Government orders-

- (i) Land.—Provided at the cost of Company, other than one side of portions of the road between Howrah and Amta the free use of which is authorised for the purpose of laying the line only.
- (ii) Aid by the Local Authorities.—The District Board of Howrah either exempt the Company from the tax on account of road cess, or exact only a nominal tax for a period of 21 years, with power of renewal. The Municipal Commissioners of Howrah allow the Company free use of so much of the municipal roads as is necessary for the purpose of laying the line, for a period of 20 years from the 27th March 1895; and thereafter levy a track rent of Rs. 2,000 per mile per annum.

The District Board also pay to the Company, by way of interest on the capital expended, such sum of money as may be required to make the net profits of the Company equivalent to a dividend at the rate of 4 per cent per annum, provided that the Board is not involved on this account in a greater liability than Rs. 1,100 per annum per mile constructed and opened with a maximum pf Rs. 28,000 per annum.

- (iii) Distribution of profits.—Surplus profits in excess of 4 per cent, after setting aside such sums as the Directors may decide, upon the capital for the time being of the Company are divisible in equal proportions between the District Board of Howrah and the Company.
- (iv) Rates and fares.—Certain maximum rates of fares for passengers and tariff of charges for goods have been fixed. Full control over charges of all kinds is reserved to Local Government.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.
 (b) Government bullion and coin, and the persons in charge thereof.
- (vi) Power of the Local Authority to determine agreement.—Upon the expiration of 21 years from the date of the Local Government order authorising the construction of the line, or at the end of every 7 years thereafter, the District Board of Howah, in conjunction with the District Board of Hooghly and the Municipality of Howah, have by giving 6 months' notice, the right of purchasing the line by paying to the Company its value as a dividend-earning investment, together with a bonus of 20 per cent thereon.
- (vii) Power of the Company to surrender agreement .- Nil.
- (viii) Term of agreement [if not determined under (vi)] .- None specified.

Statistics of working. (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

Year.	Mileage	Total capital outlay, including auspoinc, to end of each year, i.e., ontlay on (i) lines open, and (ii) lines partly or wholly under construction.		Not carnings.	Percentage of net carnings on total capital outlay given in column (3).	(—), the	Total income, [column 5, + or —,	Percontage of total income on total capital outlay given in column (3).	Earn- ings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	, е	7	8	9	10	11
manager for to gar	Miles.	Ru.	Rs.	Pos.	· · · · · · ·	Rs.	Rs.		Rs.	-
1908 . 1909 . 1910 .	43 87 48 87 48 87	21,57,189 21,80,794 22,24,279	3,98,131 4,87,034 4,88,490	1,06,412 2,10,668 2,15,230	9·10 9·66 9·67	-38,678 -40,935 -45,732	1,57,734 1,69,733 1,69,498	7·81 7·78 7·02	193 191 212	50°67 51°79 55°48
1911 1912	43·87 43·87	23,03,904 22,94,838	4,99,121 5,59,802	2,52,728 3,05,869	10.97 19.83	-58,751 -66,159	1,98,977 2,39,710	8.63 10.44	219 245	49·86 45·88
1st qr. of 1913. 1918-14 . 1914-15 1915-16 . 1916-17 .	48:87 48:87 43:87 43:87 43:87 48:87	25,61,096 26,70,739 26,87,496 26,43,718	6,04,612	2,68,185	10·50 8·94 9·68 10·15	-68,055	2,21,918 1,87,190 2,00,041 2,05,376	7.44	267 261 269 271 266 264	49·89 54·75 61·96 57·87 55·74 54·17

HOWRAH-SHEAKHALA LIGHT BAIL WAY (2' 0" gauge)

Date of registration of the Company .- 19th June 1895.

Enning powers-

Home line over foreign line :-

Telkul Ghat to Kadamtala, Howmh-Amta Light railway, for passenger and goods trains, \$00 miles.

Progress in opening-

	Sect	tions	of r	ail wa	y .						•	Date of opening.	Miles.	Total.
			1									8	8	4.
Main tine— Kadambala to Chanditala Chanditala to Kistrampur Kistrampur to Sheakbala	-	:	:	:	:	:	:	:	:	:	:	2-8-97 10-9-97 7-11-97	8·88 8·75 4·75	10.0
enai branch — Chanditala to Janai.							•					5-5-98	9:87	171
•								Tor	A To			٠,, ١		19-7

Details of construction-

Permanent-way.—The permanent-way consists of flat-footed steel rails, 25 lbs. to the yard, laid on cross alsepers of pynkado, except on 5.50 miles, between Kadamtala and Baluhati, which have been relaid with 30-lb. steel rails and sal sleepers.

Ballast .- The line is ballasted throughout.

Fencing .- The line is unfenced.

Curves. - The sharpest curve is of 144 feet radius at Howrah town.

Gradients .- The line is practically level throughout.

Agreements and Local Government order-

Agreement, dated the 12th June 1889, between the District Board of Howrah and Messrs. Walsh, Lovett and Company of Calcutta (the Promoters), for and on behalf of the Bengal District Road Tramways Company;
Agreement, dated the 16th July 1889, between the District Board of Houghly

Agreement, dated the 18th July 1889, between the District Board of Honghly and Messes. Walsh, Lovett and Company of Calcutta (the Promoters), for and on behalf of the Bengal District Road Transagys Company;

Agreement, dated the 27th September 1889, between the Nunscipal Commissioners of Howardh and Messrs. Walsh, Lovett and Company of Calcutta (the Promoters), for and on behalf of the Bengal District Road Tramways Company;

as to the grant of a concession of the right to construct, maintain and work the line from Howrah to Sheakhala.

The Bengal District Road Tramways Company order published under the Bengal Government, Public Works Department, Notification No. 112, dated the 26th March 1895, authorising the construction of the line from Howrah to Sheakhala.

Agreement dated the 10th January 1898, between the District Board of Hooghly and the Bengal District Road Tramways Company (Howrah-Sheakhala), providing for an increase in the amount of subsidy guaranteed to be paid by the District Board.

Main provisions of agreements and Local Government order—

- (i) Land.—Provided at the cost of the Company, other than one side of portions of the road between Howrah and Sheakhala, the free use of which is authorised for the purpose of laying the line.
- (ii) Aid by the local authorities.—The District Board of Howrah, for 21 years, with power of renewal, exempt the company from the tax on account of road cess, or exact only a nominal tax; and the District Board of Hooghly guarantee to make up the net profit of the Company equivalent to a dividend of 4 per cent per annum on the capital actually paid up and expended, subject to a maximum of Rs. 950 per annum per mile of line constructed and open. The Municipal Commissioners of Howrah allow to the Company free use of so much of the Municipal roads as is necessary for the purpose of laying the line, for a period of 20 years from the 27th March 1895; and thereafter levy a track rent of Rs. 2,400 per mile per annum.
- (iii) Distribution of profits.—Surplus profits in excess of 4 per cent, after setting aside such sums as the Directors may decide, upon the capital for the time being of the Company are divisible between the District Board of Hooghly and the Company in proportion of †rd to the former and †rds to the latter.

HOWRAH-SHEAKHALA LIGHT RAILWAY (2' 0" gauge) -concid.

Main provisions of agreements and Local Government order-concid.

- (iv) Rates and fares.—Certain maximum rates of fares for passengers and tariff of charges for goods have been fixed. Full control over charges of all kinds is reserved to the Local Gevernment.
- (v) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Government officials and Government stores.—

 Not specified.
- (vi) Power of the Local authority to determine agreement.—The District Beard of Howrah or that of Hooghly, each in conjunction with the other and with the Municipal Commissioners of Howrah, have the right of determining the agreement and purchasing the line after 21 years from the date of the Local Government order authorising its construction or at the end of every 7 years thereafter. If purchased by the District Board of Howrah the price will be equal to the value of the whole line, plus a bonus of 20 per cent thereon; if purchased by the District Board of Hooghly the price will be the value of the whole line, plus a bonus of 15 per cent thereon.
- (vii) Power of the Company to surrender agreement .- Nil.
- (viii) Term of agreement [if not determined under (vi)] .- None specified.

tatistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

Ye	ar.		Mileage open st end of each year.	to end of each year,	Gross earnings.	Net eamnings.	Percentage of net earnings on total capital outlay given in column (3).	Subridy from, (+), or share of net profits to, (-), the District Board.	Total	total capital outlay given in column (8).	per week.	expenses to earn- ings.
	1		2	3	4	5	6	2	8	9	10	11
			Miles.	Ra.	Be.	Rs.		Rs.	Re.		Ba.	1
1908 . 1909 . 1919 .	:	:	19·75 19·75 19·75	6,83,299 6,50,458 6,56,178	1,01,052 1, 07,476 1,19,792	84,308 38,522 63,356	5·42 5·92 9·65	-2,987 -3,595 -5,032	31 816 34 927 58 318	4·94 5·87 8·88	104 116	66.05 64.16 47.11
1911 . 1912 .	:	:	19·75 19·75	6,56,138 6,61,685	1,26,090 1,41,087	62,171 74,861	9·48 11·31	-4,666 -6,785	57,505 68,076	8·76 10·28	123 137	50.68 46.98
lst gr. of	191	3	19.75	6,68,508	38,100	21,863	3.27	-2,213	19,650	2.94	148	42-62
1918-14 1914-15 1915-16 1916-17 1917-18	:		19.75 19.75 19.75 19.75 19.75	7,18,108 8,26,846 7,70,777 7,63,657 7,68,974	1,57,887 1,56,032 1,62,490 1,61,042 1,61,947	69,658 70,546 62,125 65,167 65,380	9:69 8:53 8:06 8:58 8:55	-6,282 -7,231 -8,712 -9,696 -9,815	68,371 68,315 58,418 55,471 55,565	6·98 7·26	154 152 158 157 157	55·87 54·78 61·76 59·53 59·62

JAGADHRI LIGHT RAILWAY (2' 0" gauge).

Date of registration of the Company .- 27th August 1909.

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
1	1		4
Jagadhri station to Jagadhri town	11-8-11	3 -81	2.81

Details of construction-

Permanent-way.—The permanent-way consists of 24-lb. flat-footed steel rails laid on sal and deodar eleepers.

Ballast.—The line is ballasted for about a furlong in one place only; the remainder is being ballasted gradually with broken bricks.

Fencing .- The line is unfenced.

Curves .- The sharpest curve is of 573 feet radius.

Gradiente. - The ruling gradient is 1 in 800.

Local Government order-

The Jagadhri Light Railway Company order of 1908, published under the Punjab Government Notification No. 754, dated the 15th December 1909, as to the construction, maintenance and working of a steam tramway from Jagadhri station to Jagadhri city.

Main provisions of Local Government order-

- (i) Land.—Except the portions of the District Board and provincial roads in the district of Ambala which the line is authorised to cross, all land for the purpose of the undertaking is provided at the cost of capital.
- (ii) Government aid .- Nil.
- (iii) Distribution of profits. The whole of the profits belong to the Company.
- (iv) Rates and fares.—To be fixed from time to time by the Company with the approval of the Local Government.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.

 | Not | Specified.
- (vi) Power of the Government to determine contract.—At the expiry of 21 years after first opening throughout for traffic, or at subsequent intervals of 10 years, the local authority, by giving 12 months' notice, has the right to terminate the contract and purchase the undertaking, with the previous sanction of the Local Government, by paying to the Company 25 times the yearly average net earnings of the line during the 8 years preceding the purchase with a maximum of 120 and minimum of 100 per cent of the cost price.
- (vii) Power of the Company to surrender contract .- Nil.
- (viii) Term of contract [if not determined under (vi)]-None specified.

Matistics of working-

	Year.			Mileage open at end of each year.	Total capital outlay, including suspense, to end of cach year, i.e, outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net earnings.	Percentage of net earn- ings on total capital out- lay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
	1			2	8	4	5	6	7	8
1911 1913	: :	:	:	Miles. 8-81 3-81	Re. 1,05,600 1,11,266	Ra. 7,908 25,038	Es. 503 1,720	947 1:54	Rs. 89 145	99'64 99'18
1st qr. 0 1918-14 1914-15 1915-16 1916-17 1917-18	£ 1918 :	•	•	3°31 8°81 8°81 8°81 8°81	1,11,467 1,14,183 1,18,638 1,18,936 1,19,934 1,18,234	6,962 25,231 23,230 22,713 19,566 18,788	1,497 3,428 2,756 2,156 1,068 1,578	1°36 2°90 3°43 1°90 0°95 1°40	180 147 180 183 118 109	78-48 68-48 87-48 90-66 94-54 91 74

JORHAT (PROVINCIAL) BAILWAY (2' 0" gauge).

This line was originally known as the "Kokila Mookh tramway" or the "Kokila Mookh State railway." Its construction out of the Provincial revenues of Assam, for the convenience of the numerous tea-gardens in the neighbourhood of Jorhat, was approved by the Government of India in their letter No. 621-R. C., dated the 11th August 1882.

Progress in opening-

	Sect	ior	a of	rai	lws	у.					 Date of opening.	Miles.	Total.	Grand total,
			1								2	3	4	5
Main line— Gossigson to Jorhat . Jorhat to Dhali river Dhali river to Titabar	:		:			:	:	:	:	:	 13-9-88 15-12-84 16-7-87	7:00 9:50 1:75	•	
Cold weather line — Gosaigaon to Borghop Borghop to a point furth								:			22-10-01 8-12-11	4.75 2.50	1 9 25 7 25	
Mariani branch— Chenimara Junction to I	fariar	i									1-12-86	7:00	7.00	
								Tot	rat.		•••			89-8

Details of construction-

Permanent-way.—2:51 miles between Jorhat and Gosaigaon are laid with steel rails, 30 fbs. to the yard. About a mile, between Jorhat and Chenimara, 4:25 miles, between Chenimara and Mariani, 0:75 mile, between Chenimara and Titabar, and 4:00 miles, between Jorhat and Gosaigaon, and one mile between Gosaigaon and River terminus are laid with steel rails, 25 lbs. to the yard. The rest of the line, including the section from Gosaigaon to Borghop and the alternative cold weather section across Gosaigaon channel, is laid with steel rails, 18 lbs. to the yard.

Ballast.—The line is unballasted.

Pencing .- The line is not fenced:

Curves. The sharpest curve is of 480 feet radius.

Gradients.—The ruling gradient is about 1 in 800, except on the Jorhat-Chenimara section where it is 1 in 400.

Contract-

Nil.-The line is owned and worked by the State.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Railway Administration Report for 1907.)—

Year.	•	Mileage open at oud of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (i) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earn- ings on total capital outlay given in column (3).	Interest.	Gain or loss to the State pertaining to each year.		Proportion of expenses to earn- ings.
1		2	3	•	5	6	7	8	9	10
		Miles.	. Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	
1908 1909 1910		\$1.75 31.65 30.00	9,29,930 9,53,588 9,68,204	1,01,098 99,538 95,976	11,258 11,288 7,529	1·21 1·18 0·78	81,681 81,748 31,959	-20,428 20,405 24,480	62 69 59	88.66 92.16
1911 1912	٠	32·50	9,72,295 9,84,848	1,09,457 1,29,406	31,354 33,06 8	8:22 3:86	32,885 33,541	-1,581 -478	70 79	71.85 72.98
1st qr. 1918. 1918-14 1914-15 1915-16 1916-17 1917-18	of	32:50 32:50 32:50 32:50 32:50 32:50	10,43,645 10,64,859 10,71,745 10,90,695 11,23,785 11,12,262	30,528 1,80,065 1,21,520 1,56,852 1,64,905 1,42,055	9,824 39,846 6,352 54,790 63,178 28,488	0·89 3·74 5·04 5·69 2·11	10,869 85,717 37,882 87,545 36,499 38,828	1,045 + 4,129 43,734 + 17,245 + 26,679 15,390	78 88 78 98 98 85	69-46 69-36 105-28 64-97 61-82 88-50

KULASEKARAPATNAM-TISSIAN VILLAI LIGHT RAILWAY (2' 07 mge).

This line in the Tinnevelly district was originally constructed for the sole use of the East India Distilleries and Sugar Factories (Limited) of Madras. Its maintenance and use for public traffic were authorised in Madras Government Order No. 1134-L., dated the 19th June 1914.

Progress in opening-

Section	Date of opening.	Miles.	Total.						
	1	 					9	8	4
Kulasekarapatnam to Tissianvillai	•			•	•		18-7-15	15 00	18-00

Details of construction-

Permanent way.—The permanent-way consists of flat-footed steel rails 18 lbs. to the yard between the Factory and Kulasekarapatnam Port and 14 lbs. to the yard, between Kulasekarapatnam Port and Tissianvillai, laid on wooden and corrugated steel sleepers with clip and bolt.

Ballast .- The line is ballasted with sand.

Fencing.—The line is fenced with thorn hedges where it passes through private lands.

Curves.—The sharpest curve has a radius of 80 feet.

Gradients.-The ruling gradient is 1 in 80.

Local Government order-

Madras Government, Local and Municipal Department, order No. 1134-L., dated the 19th June 1914 authorising the East India Distilleries and Sugar Factories (Limited) of Madras to maintain and use for public traffic the tramway line laid by them between Kulasekarapatnam and Tissianvillai in the district of Tinnevelly.

Main provisions of Local Government order-

- (i) Land.—Private lands taken on lease from the owners and Government land on an annual rental of Rs. 10 per mile.
- (ii) Government aid .- Nil.
- (iii) Rates and fares.—Not stipulated in the Government order. But the promoters have, for the present, fixed 3 pies per mile for passengers (one class only), 1 pie per manual per mile for goods in wagon loads, i.e., 4 tons, 1½ pie per manual for goods in less than wagon loads, 1 pie per mile for every 5 seers, or fraction thereof, of parcels, and ½ pie per mile for every 5 seers, or fraction thereof, of luggage allowed free per passenger.
- (iv) Special obligations as to the conveyance of.—

 (a) Mails, troops, police, high Government Officials and Government stores—

 (b) Government bullion and coin and the persons in charge thereof.—

 Nil.
 - (v) Power of the Government to determine contract.—After 50 years from the date of the order, the local authority may purchase the line by paying to the promoters twenty-five times the average annual net earnings of the line for the last 5 completed years previous to the date of purchase subject to a minimum of 100 and a maximum of 125 per cent of the capital outlay.

The Government also may purchase the line for twenty-five times the average net earnings of the previous 3 years, subject to a minimum of 100 and a maximum of 120 per cent of the actual capital cutlay, if, at any time, the line be connected with a railway and the proprietors fail to bring the line up to the standard required by the Indian Railways Act.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net earnings.	Percentage of net earnings on total capital ontlay given in column (8).	Karnings per milo per week.	Froportion of expenses to sarnings.
1	2	'3	4	5	6	7	8
1915-16 1916-17	Miles. 1800 1800 1800	Ba. 2,86,280 2,98,045 8,46,225	Re. 17,690 79,893 39,943	Bs. 5,141 47,150 —5,052	2-02 15-82 	B.s. 19 85 34	70-64 40-98 115-76

TARIKERE-NARASIMHARAJAPURA LIGHT RAILWAT (* 0" gauge).

The construction of this line by the Mysore Durbar, under the provisions of the Mysore Tramways Regulation No. H of 1906, was sanctioned by the Government of India in the Foreign Department letter No. 3225-1.B., dated the 25th September 1913.

Progress in opening-

Sections of railway,	Date of - opening.	Miles.	Total	Grand total.
. 1	2	8	è	5
Tarikere, on the Birur-Shimoga railway, to Lakvalli Lakvalli to Narasiwharajapura	. 15-1-15 . 15-5-17	11:88 14:72	24.60	
Inder construction or sanctioned for construct	ION		29'00	
adasa to Hebbe (sanctioned on 27th August 1917) .		10.00	10.00	
GRAND TOTAL	•		***	86-00

Details of construction-

Permanent-way.—The permanent-way consists of 24-lb. flat-footed rails laid on wooden sleepers.

Ballast. - The line is packed with gravel ballast.

Fencing .- The line is unfenced throughout.

Curves .- The radius of the sharpest curve is 119 feet.

Gradients .- The ruling gradient is 1 in 50.

Agreement-

Nil. The line is owned and worked by the Mysore Government.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each yoar, ie, outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (8).	Earnings per mile per week,	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8
	Miles.	Rs.	Rs.	Rs.		Bs.	
1914-15	12.00	2 ,50,67 3	Informati	on not availa	ble		
1915-16	11.75	2,97,416	7,625	2,109		12	127·66
1916-17	11:83	3,47,487	*925	8,687		3	408-89
1917-19 , .	26.60	5,14,281	17,798	-9,572		16	158.78

The decrease is due to the closing of the line to tentic for a portion of the year.